

WO 01/53312

PCT/US00/34263

SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop Codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6398	353	1306	Q HKQMGPLINRCKKILLPTTVPPATMRIWLLGGLLPFLLLLSGLQ RPTGSEVAIKIDFDFAPGSFDDQYQGCSKQVMEKLTQGDYFTK DIEAQKNYFRMNOQKAHLNQQKVLQPNMTTTHAVAILFYTLN SNVHSDFTRAMASVARTPQQYERSPHFKYLHYVLTSAIQLLRKD SIMENGTLCEVHYRTKDVHFNAYTGATIRFGQFLSTSLLEE QEFNGTFLFTIFTCLGAPVQYFSLKKEVLIPPYELFKVINMSYH PRGDWLQLRSTGNLSTYNCQLLKASSKKCIFDPIAIASLSFLT VIIFSKSRV
6399	75	1245	PNLETYFGRRCCKDSMNFTPTHTPVCRKRTVVSKRGVAVSGPTK RRGMADSLSTPLPSPEDRLAKLHPSKELLEYQKKMAECBAEN EDLLKKLELYKEACEGQHKLECDLQQRBEIABLQKALSDMQVC LFQEREHVLRLYSENDRLRIRELEDKKKIQNLLALVGIDAGEVT YFCKEPPHKVTILQKTIQAVGECEQSESSAFKADPKISKRRPSR ERKESSEHYQRDIQTLILQVEALQAQLGEQTKLSREQIEGLIED RRIHLEEIQVQHQRNQNKIKELTKNLHHTQELLYESTKDFLQLR SENQNKESWMLEKDNLMISKIKQYRVQCKKEDKIGKVLPMHE SHHAQSEYIKVMSLCRNEVVYFSGRVEGIPKNLQFVM
6400	2520	1053	KTMKCEVYVQSAILRHNCGYAMKTGKFFHNLMERKDFETWL DNISVTFSLTDLQKNETLDHLISLSGAVQLRHLNNLETLLKR DFLKLPLLELSFYLLKWLDPOTLLTCLVSKQWNKVISACTEVW QTACKNLGWQIDDSVQDALHKKVYLKAILRMKQLEDHEAFETS SLIGH SARVYALYKDGLLCTGSDDL SAKLWDVSTGQCVYGIQT HTCAAVKFDEQKLVTSFSDNTVACWEWSSGARTQHFRGHTGAVF SVDYNDLDELIVSGSADFTVKVWALSAGTCLNLTGTHTWVTKV VIQCKVKSLHSPGDYILLSADKYEIKIWPIGREINCKCLKTL SVSEDRSICLQPRLHFDGKYIVCSSALGLYQWDFASYDILRVIK TPEIANLALLGFGDI FALLFDNRVLYIMDLRTESLISRWPLPEY RKSRRGSSFLAGEASWNLGLDGHNDTGLVFATSMPEHSHLVLW KEHG
6401	109	766	PGAAWSRPDLRGCTGPGQFALRMLVLPSPCPQPLAFSSVETMEG PPRRTCRSPPEPGSSSIGSPQASSPPRPNHYLLIDTQGVVPTVL VDRESQREPGASGAPGQKKCYSCPVC SRVFYMSYLQRHSITHS EVKPFECDCGKAFKRASHLARHHSIHLACGRPHGCPLCPRRF RDAGELAQHSRVHSCERPFQCPHCPRRFMEQNTLQKHTRWKHP
6402	1196	279	TTSQCGGIRQSSAIPVASMFAAICLRNALLLPPEEQDPPKQEN GAKNSNQLGGNTESSESSETCSSKSHDGDKFIPAPSSPLRKQE LENLKCSILACSAYVALALGDNLMALNHADKLLQPKLSGSLKF LGHLYAAEALISLDRISDAITHLNPENVTDVSLGISSNEQDQGS DKGENEAMESSGKRAPQCYPSVNSARTVMLFNLGSAYCLRSEY DKARKCLHQAASMIHPKEVPPAAILLAVYLELQNGNTQLALQII KRNQLLPAVKTHSEVRKKPVFQVHPVPIQPIQMPAFTTVQRK
6403	2	1690	RGHTSVLQGNLQNMYSHNVMNLLNLTQVQQRNLIITNLQ RSVDDTSQAIQRIKNDFQNLQQVFLQAKKTDWLKEKVQSLQTL AANNSALAKANNNDTLEDMSQLNSFTGQMENITITISCANENLK DLQDLHKDAENRTAIKFNQLEERFQLFETDIVNIIISNISYTAHH LRTLSTNLNEVRTTCTDTLTKHTDDLTSLNLTANIRLDSVSLR MQQDLMSRLDTB VANLSVIMEEMKLVD SKHGQLIKNFTIILQGP PGPRGPRGDRGSQGGPPGPTGNKGQKGEKGP GPPGAGERGPIG PAGPPGERGKGSGSGSGQPKSGRSGSGKPGPGQPSGDPGPPGPP GKEGLPGPGQPPGFGQLQGTVEGPGVPGPRGLPGLPGVPGMPGP KGPPGPPGSGAVVPLALQNEPTPAPEDNSCP PHWNFTDKCYY FSVEKEIFEDAKLFCEDKSSHLVFINTRREEQWIKKQMVGRSH WIGLTD SERENEWKWDGTS PDYKNWKAGQPDNNGHGHGPGEDC AGLIYAGQWNDFQCEDVMNFICEKDR ETVLSSAL AAALAMAAPGLISVFSSSQELGAALAQLVQRAACCLAGARA
6404	1012	222	

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			RFALGLSGGSLVSMRLARELPAAVAPAGPASTARWTLGTCDERLV PFDHAESTYGLYRTHLLSRLPIPESQVITINPELPVEEAAEDYA KKLRQAFQGDSPVFDLLILGVGPDGHTCSLFPDHPQLQEREKI VAPISDSPKPPQPVTLTLPLVNAARTVIFVATGEGKAVALKRI LEDQEEENPLPAALVQPHTKGLCWFLDEAAARLLTVPFKEKHSPL
6405	1	1456	AALPRPTPRAPLREGTGSDEMAASMFYGRVLVAVATLRNHRPR TAQRAAAQVLGSSGLFNNHGLQVQQQQRNLSLHEYMSMBELLQE AGVSVPGYVAKSPDEAYAIKKLGSKDVVIAQVLGAGGRGKGT FESGLKGGVKIVFSPPEAKAVSSQMIGKKLFTKQTGEKGRICNQ VLVCERKYPREYYFAITMERSFQGPVLIGSSHGCVNIEDVAAE TPEAIIKEPIDIEGKKEQALQLAQKMGFPNNIVESAENMVK LYSLFLKYDATMIEINPMVEDSDGAVLCMDAKINFDSNSAYRQK KIFDIQDWTQEDERDKDAKANLNYIGLDGNIGCLVNGAGLAMA TMDIIKLHGTPANFLDVGCGATVHQVTEAFKLITSDKKVLAAIL VNIFFGIMRCDVIAQGIIVMAVKDLEIKIPVVVRLQGRVDDAKA LIADSGKLILACDDLDEAARMVVKLSEIVTLAKQAHVDVKFQLP I
6406	1036	167	HPQMRGEDTPEAPPYSSGRYDSIKTEVSGCPEDLTVGRAPTAD DDDDHDDHEDNDKMNDSGMDPERLKAFFNFVRLFVDENLDRM VPISKQPKKEIKAIIESCSRQPFEPQERARKRIRTYLKS CRMRK KNGMEMTRPTPEHLTSAMAENILAAACESTRKAARKMRLEIYQ SSQDEPIALDKQHSRDSAAITHSTYSLPASSYSQDFVYANGGLN YSYRGYALSSNLQPPASLQTNHNSNGESGEARALASRPAPSWV CRAALGSGMGRGKQRPVMERGCLTA
6407	492	150	VGLCLAVSQTVLAQLDALLVFEGQVAQLSCTLSPQHVTIRDYGV SWYQQRAGSAPRYLLYYRSEEDHHRPADIPDRFSAKDEAHNAC VLTISVPQPEDDADYYCSVGYGFSP
6408	1458	903	RGCITSSQAWRLFGGVTRGFNMRIEKCFCSEPIYPGHGMFVR NDCKVFRFCKSKCHKNFKKRNPRKVRWTKAFRKAAGKELTVDN SFEFEKRRNEPIKYQRELWNKTIDAMKRVEEIKQKRQAKFIMNR LKKNKELQKVQDIKEVKQNIHLIRAPLAGKQKQLEEKMVQQQLQE DVDMEDAP
6409	150	446	NTALANLLRCFTCDRLCGGCTAPAPPAHQGIVLQPVMPSCDPGP GPACLPKTKTFRSYLPRCHRTYSCVHCRAHLAKHDELISKSFQGS HGRAYLFNSV
6410	85	607	RGGTAGCVACLGCGWQSSSPKAAPAGSACLPAADSCPCLLFQAC AISGLFNCTIHLPLNIAAGVMMIMNAFILLCEAPFCCQFIEFA NTVAEKVDRLRSWQKAVFYCGMAVPIVISLTLTLLGNIAIAPA TGVLYGLSALGKKGDAISYARIQQQRQQADEEKLAEETLEGEL
6411	302	772	RLSIMASSLNEDPEGSRTYVVKGDLFACPKTDSLACISEDCRM GAGIAVLFFKKKFGGVQELLNQKKSGEVAVLKRDGRYIYYLITK KRASHKPTYENLOKSLEAMKSHCLKNGVTDLSMPRIGCGLDRLQ WENVSAMIEEVFEATDIKETVYTL
6412	61	1709	RPVTSFSPPLPGSCGRLGTRTMLGRSLREVSAAALKQGGITPTTEL CQKCLSLIKKTKFLNAYITVSEEVALKQAESEKRYKNGQSLGD LDGIPIAVKDNFSTSGIETTCASNMLKGYIPPNATVVQKLLDQ GALLMGKTNLDEFAMGSGSTDGVFGPVXNPWSYSKQYREKRKQN PHSENEEDSWLITGGSSGGSAAAVSAFTCYAALGSDTGGSTRNP AAHCGLVGFKPSYGLVSRHGLIPLVNSMDVPGILTRCVDDAAIV LGALAGPDPRDSTTVHEPINKPFMLPSLADVSKLCIGIPKEYLV PELSSEVQSLWSKAADLFESEGARVIEVSLPHTSYSIVCYHVL TSEVASNMARFDGLQYGHRCIDVSTEAMYAATRREGFNDVVRG RILSGNFFLLKENYENYFVKAQKVRRLIANDFVNAFNSGVDVLL TPTTLSEAVPYLEFIKEDNRTRSQQDDIFTQAVNMAGLPAVSIP VALSNQGLPIGLQFIGRAFCDQQLLTVAKWFQKQVQFPVQIQLE LMDDCSAVLENEKLASVSLKQ

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6413	2	885	HEPRCAGMAASLWMGDLEPYMDENFISRAFAIMGETVMSVKIIR NRLTGIPAGYCFVEFADLATAEKLHKLINGKPLPGATPAKRFL NYATYQKQPDNSEYSLFVGDLPDVEDGMLYEFFVKVYPSRCG GKVVLDQTGVSQYGFVKFTDELEQKRALTECCQAVGLGSKPVR LSVAIPKASRVKPEVYSQMYSYNQYQQYQYQAQWGYDQNT GSYSYSPQYGYTQSTMQTYEEVGDDALEDPMPQLDVTANKEF MEQSEELYDALMDCHWQPLDVSSEIPAMM
6414	1	538	RGGRAALLPWRRFPCCRPQPAPRPSRATPGPRSPGMATSIGV SFSVGDGVPEAEKNAGEPENTYILRPVFPQQRFRPSVVKDCIHAV LKEELANAEYSPEEMPQLTKHLSENIKDKLKEMGPDYKMMVVQV VIGEQRGEGVFMASRCFWDADTDNYTHDVFMDNSLFCVVAAGFC FYY
6415	2	1168	FVRQWQSSHRRACGLGCEARAGGGEEPRGRASSVAGWVGAFRAP FIEAAVAGLGAGSGKRRRGWKMPVHSRGDKKETNHHDMEVDYA ENEGSSSEDEDETFSSVSSEDGDSSEMDDEDCEERRMECLDEMSN LEKQFTDLKQDYKERLSQVDAKLQEVIAQKAPEYLEPLATLQE NMQIRTKVAGIYRELCLSVKNKYBCEIQASRQHCESEKLLLYD TVQSELEBKIRLEEDRHSIDITSELWNDELQSRKIRKDPFWD KKKPGVVSQPYIVYMLQDLILEDWTITRKAMATLGPHRVKTEP PVKLEKHLHSARSEEGRLYYDGEWYIRGQITCIDKKDECPTSAV ITINHDVEVWFKRPDGSKSKLYISQLQKGYSIKHS
6416	410	1519	ETAPADLEIPACAPVLLSRATSSMTSVTGGKMAPSLTQETLSHL GLASKTAAWGTGLTLRTFLNFSVDKDAQRLLRAITGQGVDRSAI VDVLTNRSRREQRLISRNFBQERTQQDLMLKSLQAALSGNLERIV ALLQPTAQFDAQELRTALKASDSAVDVAIEILATRTPPQLQCECL AVYKHNQVEAVDGTSETSGILQDLLLLALAKGGRDSYSGIIDY NLAEQDVQALQRAEGPSREETWVPVFTQRNFEHLIRVFDQYQRS TGQELEAEVQNRFHGDAQVALLGLASVIKNTPLYFADKLHQAQ ETEPNYQVLIIRILISRCETDILLSIRAEFRKKFGKSLYSSQLQDAV KGDCQSALLALCRAEDM
6417	1	845	RGESRVLWSELEGEAGGAGGWASSLNARMNRFATAFVACVLS LISTIYMAASIGTDFWYEYRSPVQENSSDLNKSINDEFISDEAD EKTYNDALEFRYNGTVGLWRRCTITPKNMHWYSPPERTESFDVVT KCVSFTLLEQFMKEFVDPGNHNSGIDLLRTRYLWRCQFLPFVSL GLMCFGALIGLCACICRSLYPTIATGILHLLAGLCTLGVSQYV AGIELLHQKLELPDNDVSGEFGWFCCLACVSAPLOFMASALFIWA AHTNRKEYTLMKAYRVA
6418	2	662	TRTRPRRPPGLGAAVGKAGARSTSTPAGASPAAYQADPPPPAH TPAPPPPPPCGGIACHGEPKFGYDNLQRQPIFTTQQAELVQ YDCKSSSGNIGEDPDHLNQSSSPSQMFPMRPAAPGRRRRGRQ TYSRFQTLLEKEFLENPYLTRKRRIEVSHALALTERQVKIWFQ NRRMKWKKNKNDKFPVSRQEVKDGGETKKEAQELEEDRAEGLTN
6419	1	973	PGRPRVRNFDLNSKSLQEFFCTRSITQIPANRSKTAMSKCPIFP MARSISTSGPLDKEDTGRQKLITSGSLPATLQGATDSLGLLEWHL PSPDPVTVPYLSPLVWVWKELESLLNEGDAITVADFVDHPIV FWNLVWYFRRLDLPNLPLGLLSSEHCNKYSKIPRHCMSSEDSKY VLIQMLWDMKLIHQDPGPLYILWNAHTQKYPMVHLLQKSDNSF NQELKSMVKSIMKNDVYGPMSQILETLNKCPIHFKRQRSYREI LFLSLVALGRENIDIDAFDKEYKMAYDRLTPSQVSKSTHNCDRPP STGVMECRKTFGEPLY
6420	207	1187	RKMDKNQTCGVGQDSVPYMICLIHILEWFGVEQLEDYLNLFAN YLLWVFTPLILLILPYFTIFLLYLTIIIFLHIYKRKNVLKEAYSH NLWDGARKTVATLWDGHAADVHGYEVHGMKIPEDGPALIIIFYH GAIPIDFYFMAKIFIHKGRTCRVADHFVFKIPGFSLLLDVFC ALHGPKEKCVIELSGHLLAISPGGVREALISDETYNIVWGHRR GFAQVAIDAKVPIIPMFTQNIREFGRSLGGTRLFRWLVEKFRYP

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			FAPMYGGFPVKLRITYLGDPIPYDPOQITAEELAEKTKNAVQALID KHQRIPGNIMSALLERFH
6421	1844	362	WALSLSRQPERMSNKLSPHPSVVLRSSEFKMASSPAVLASRL YQWSLKSSAQFLGSPQLRQVGQIIRVPARMAATLILEPAGRCW DEPRIAIVRGLAPEQPVTLRASLRDEKGFQAHARYRADTIGE LDLERAPALGGSFAGLEBPMGLLWALEPEKPLVRLVKRDVRTPLA VELEVLDGHDPPDGRLLCQTRHERYFLPPGVRRPVRVGRVGT LFLPPEPGPPFGIVDMFGTGGGLLEYRASLLAGKGFVAMALAY NYEDLPKTMETLHLEYFEEAMNYLLSHPEVKGPCVGLLGISKGG ELCLSMASFLKGITAAVINGSVANVGGLTRYKGETLPPGVNR NRIKVTKDGYADIVDLNSPLEGPDQKSFIPVERAESTFLELVG QDDHNWKSEFYANEACKRLQAHGRRKPKIICYPETGHYIEPPYF PLCRASLHALVGSPPIWGGEPRAHAMAQVDQWKLQTFHFKHLG GREGTIPSKV
6422	181	2133	EGENLSWFQEFWGDIAKEFYWKTPCPGFLRYNFDVTGKIFIE WMKGATTNICYNVLDNRNVHEKLGDKVAFVWEGNEPGETTQITY HQLLVQVCQFSNVLRKQGIHKGDRVAIYMPMIPELVVALACAR ICALHSIVFAGFSSESLCERILDSSCSLLITTDAYRGEKLVNL KELADEALQKQCEKGFVPRCCIVVKHLGRABLGMDSTSQSPPI KRSCPDVQISWNQGDIDLWWHELMQEADECEPEWCDADPFLIL YTSGSTGKPKGVVHTVGGYMLYVATTFKYVDFHAEDVFWCTAD IGWITGHSYVTYGPLANGATSVLFEGIPTYPDVNRLWSIVDKYK VTKFYTAPTAIRLLMKFGDEPVTKHSRASQVLGTVGEPINPEA WLWYHRVGAQRCPVDTFWQTETGGHMLTLPGLATPMKPGSAT PFFFGVAPAILNESGEELEGEAEGLVFKQWPWPGIMRTVVGNEH RFETTYFKKFPGYVVTGDCQQRDQDGYWITGRIDEMLNVSGLH LSTAEEVSAVVEHEAAVAVGHHPVKGECLYCFVTLCDGHT FSPKLTEELKKQIREKIGIATPDYIQNAPGLPKTRSGKIMRRV LRKIAQNDHDLGDMSTVADPSVISHLFSHRLTIQ
6423	614	1237	ANLKEIPRDLPPETVLLYLDNSQITSTPNEIFKDLHLQRLVNLNLS KNGIEFIDEHAFKGAETLQTLDLSDNRIQSVHKNFNLKARA RIANNPWHCDCTLQQLRSMASNHETAHNVICKTSVLDEHAGRP FLNAANDADLCNLPKTTDYAMLVTMFGWFTMVISYVVVYVRQN QEDARRHLEYLKSLSRQKKADEPDISTVV
6424	1	1188	KKVSWPVAAMVHCSCVLFKRYGNFIDKRLFTRGSGGGMYPRL GEGGGKGGDVVVAHNRMTLKQLKDRYPKRKFVAGVGANSKISA LKSGKGDWEIPVPVGISVTDENGKIIGELNKENDRILVAQGG LGGKLLTNFLPLKGQKRIIHLDLKLIADVGLVGFNPAGKSSLLSC VSHAKPAIADYAFITLKPELGKIMYSDFKQISVADLPGLIEGAH MNKGMGHKFLKHIERTRQLLEVVDISGFQLSSTQYRTAFETII LLTKELLYKEELQTKPALLAVNKMDDLPAQDKFHELMSQLQNP KDPLHLFEKNMIPERTVEFQHIIPISAVTGEIEELKNCIRKSL DEQANQENDALHKKQLNLNLSIDTMSSTEPPSKHAVTTSKMDII
6425	1850	1144	LAMEGGGGIPIETLKEESQSRHVLPAFSEVNSLQKSNWGLLTLG LVGGTLVAVYAVATPFTPALRKVCLPFPVATMKQIENVVMRLR CRRGSLVDIGSGDGRIVIAAAKKGFTAVGYELNPWLWVYSRYRA WREGVHGSAPFYISDLWKVTFSSQSNVVI FGVPQMMQLQLEKKLE RELEDDARVIACRFPFPHWTPDHVTGEGIDTVWAYDASTFRGRE KRPCTSMHFQLPIQA
6426	30	565	SRGAAVGGMSVAGGEIRGDTGGEDTAAPGRFSEFSEPTLEDIRR LHAEEFAAERDWEQFHQPRNLLLALVGEVGELELFWKWTGEPG PQGWSPRERAALQEELSDVLIYVALAARCRVDLPLAVLSKMDI NRRRYPAHLARSSSRKYTELPHGAISEDQAVGPADIPCDSTGQT ST
6427	145	959	AASWGPHPVFKAGKMWVSWMICRLVVLVFGMLCPAYASYKAVKTK NIREYVRMMYWIVFALFMAAEIVTDIFISWFFPYEIKMAFVL

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			WLLSPYTKGASLLYRKFFVHPSLSRHEKEIDAYIVQAKERSYETV LSFGKRGLNIAASAAVQAATKSQGLAGRLRSFSMCDLRSISDA PAPAYHDPYLEDQVSHRRPPIGYRAGGLQSDTEECWSDTEA VPRAPARPREKPLIRSQSLRVVKKRPPVREGTSRSLKVRTRKKT VPSDVDS
6428	1982	444	SGSGGKMEDHQHVPIDITQSKLLDWLVDRRHCSLKWOSLVLTIR EKINAAIQDMPSEEEIAQLLSGSYIHYFHCRLRILDLKGTFAST KNIFGRYSSQRMKDWQEIILALYEKDNITYLVLSLLVRNVNVEI PSLKKQIAKCCQLQEQYRSKEEECAAGAEEMREQFYHSCQYGI TGENVRGELLALVKDLPSQLAEIGAAAQQLGEAIDVYQASVGF VCESPTQVLPMLRFVQKRGNSTVYEWRTGTEPSVVERPHLEEL PEQVAEDAIDWGDGFEAVSEGTDSGISAEAGIDWGFIPESDS KDPGDDGIDWGDVAVALQITVLEAGTQAEQVARGPDALTLLEY TETRNQFLDELMELEIFLAQRAVELSEADVLSVSQFQLAPAIL QGQTKKEMVTMVSVLEDLIGKLTSLQLQLHFMILASPRVVDRT EFLQQLKQSQLLALKKELMVQKQEALEEQAALEPKLDLLEK TKELQKLIEADISKRYSGRPVNLMTSL
6429	3413	3442	EPSSWTAAPRGPLAAHPLEAAVQEDRRALSFDRIKVFANGTL VVKSVTDKDGADYLCVARNKVGDDYVVLKVDVVMKPAKIEHKEE NDHKVFYGGDLKVDCAVATGLPNPEISWSLPDGLSVNSFMQSDS GGRTKRYVVFNGTLYFNEVGMREEDYTCFAENQVGMKDMRVR VKVVTAPATIRNKTCLAVQVPYGDVVTVACEAKGEPMPKVTWLS PTNKVIPTSSSEKYQIYQDGTLLIQKAQRSDSGNYTCLVRNSAGE DRKTWVHVNVPKINGNPNPITTVREIAAGSGRKLIDCKAEG IPTPRVLWAFPEGVVLPAFYGNRITVHNGSLDIRSLKSDSV QLVCMARNECCARLIVQLTVLEPMEKPIFHDPISEKITAMAGH TISLNCSSAAGTPTPSLVWVLPNGTDLQSGQQLQRFYHKADGMLH ISGLSSVDAGAYRCVARNAAGHTERLVSLKVLKPEANKQYHNL VSIINGETLKLPTPPGAGQGRFSWTLNMGMLHGGPQILGRVSL LDNGTLTVREASVFDRTYVCRMETEGPSVTSIPVIVIAYPFR ITSEPTPVIYTRPGNTVKNLNCMAMGIPKADITWELPKSHLKG VQARLYGNRFLHPQGSLLTIQHATORDAGFYKCMAKNIIIGSDSKT TYTHVF
6430	1946	602	RTRVSTGLRRTLLWSEAVGASSTRGDTGIPSGEGCAGPCGGEG AMLEZMAEPSPEDPPPTLKPETQPEKRRRTIBDFNKFCSFVLA YAGYIPPSKEESDWPASGSSSPLRGESAADSDGWSAPSRLRTI QTFVKKAKSSKRAAQAGPTQPGPPRSTFSRLQAPDSATLLEKM KLKDSLFDLDGPKVASPLSPTSLTHTSRPPAALTVPVPLSQGDL HPPRRKDRKNRKLGPAGAGFGVLRPRPTPGDGEKRSRIKSK KRKLKKAERGDRLPDPGPPQAPPSTDSBBBBBBBBBBBBBBE TVVGGEAPVPVLPPTPEAPRPPATVHPEGVPPADSESEVGS TSQDGDASSSEGMVMDEIMVESGDDSDWDLITCYCRKPFAGR PMIECSLCGTWIIHLSCAKIKKTNPVDFFYCQCKELRPEARL GPPKSGEP
6431	3	605	WNNSSYNLPAYAPYLPCEACAMQDGRKGGAYAGKMEATTAGVGR LEEEALRRKERLKALEKTRKDKEDGEPKTKHLREEEEGEKH RELRLRNYPEDDLKRRVPQAKPVAVEEKVKEQLEAAKPPBV IEEVDLANLAPRKPDWDLKRDVAKKLEKLKRTQRAIAELIRER LKGQEDSLASAVDAATEQKTCDS
6432	56	1692	GGLGTMSRIKQNPETTFEVYVEVAYPRTGGTSLSDPEVQRQFPE DYSQDEVLQTLTKFCFFPYVDSLTVSQVGNFTFVLTDIDSQR FGFCRLSSGAKSCFCILSYLPWFVYKLLNIALDYTTKRQENQ WNEELLETLHKLPIPDGVSVHLSVHSYFTVPDRELPSIPENRN LTEYFVAVDVNNMLHLYASMLYERRILICSKLSTLTACIHCSA AMLYPMYQHVYIPVLPVPHLLDYCCAPMPYLIGIHLSLMEKVRN MALDDVVIINVDNTLETFFDDLQSLPNDVISSLNRLKKVSTT

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			TGDGVARAFLLKAQAFFGSGYRNALKIEPEEPTTFCEEFVSHYR SGAMRQFLQATQLQFLKQFIDGRLLDLSNGEGFSDVFEEENIM GEYAGSDKLYHQWLSTVVRKGSAILNTVTKANPAMKTVYKFDI AENGCAPTPERQLPKTAPSPLEAKDPKLRDRRPITVHFGQVR PPRPHVVKRPSNIAVEGRRTSVSPSEQNTIATPATLHILQKSI THEAAKFPTRGWTSSSH
6433	1524	484	APVTKRKEVFAKDSKGSALDAGRDPKRPALPETLCESGWASNTA PTTTPQPGWCLCGKDFKSSCQTPGREKERRLATMHGSCSFLMLL LPLLLLVATTGPGVAGLTDEEKLMLVELHNLRYAQVSPTASDML HMRWDEELAAFAKAYARQCVWGHNKERRRGENLFAITDEMDV PLAMEEWHHEREHYNLSAATCSPGQMCGHYTQVWAKTERIGCG SHFCEKLGVEETNIELLVCNYPGPNVKGKRPYQEGTPCSQCP SGYHCKNSLCEPIGSPEDAQDLFYLVTETAPFRATEASDSRKMGE AEGDPKPSVVSGLNSGPGHVWGPGLLGLLLPLVLVLAGIF
6434	40	2002	MPQLNFGMADPTQMGGLSMLLLAGEHALGTPEVFSGTCPDVSE SPELRQKSPFLQFAEISSSTSHSDASTKQCCQTSALFQAEISSN TSQGGABPVKRCGKSAFLQLAEMCLASEGMKMEESKLKAKES DGGRIKELEKGEKEKEIKMEKTDETRLQKEAEFEKSAKENLRDS KELRNFEALQIDDIMAIKMEDPKEIRKEELEEDHKCSHPDFSY SASSKIIISLVPSRKDHMCHPHGIMIIEDPAALNKPEKLKKKKK KSKMDRHGNDKSTPKKTKKRQSSSEDSIESVIYTBIAVAKGDWG IEKLGDTPRKKVRTSSSKGSLDAKPPKKVKSRKKMSKEKS SDTTKESRPPDFISISASKNISGETPEGIKAEPLTPMEDALPPS LSGQAKPEDSDCHRKIETCGSRKRSERCKGALYKTLVSEGLMST LRANVDRGKRSSGKGNSSDHEGCWNEESWTFSSQSGTSGSKKFKK TKPKEDCLLGSALKDREFEKKFNSLPQYSPVTFDRKCVPPVRKK KKTGNVSSEPTKTSKSGGDKWNSKQLFLDAIHPTAIFSEDRNT MEPVHKVNIPSI FNTPEPTTTARTFGGQPKESKENPDYSPCQ DTQRAGYHHEEVLWMTNLMNCCGVVLLKQLRHTAMTNA
6435	2227	657	ALQRDAAAAYAHPEYEEFLQEETVSQIINSIELLQTRPLALPE VVKSRPLQRQVHLRGRPASQPTVIRGITYYKAVSEEEENDIEE QQDEFFSGDNGVDLLIEDQLLRHNGMLTSTVTRRPAATRQGHSTA VTSDLNARTAPWSSALPQPSTSDPSIANHASVGFTLQTTSVSPD PTRESVLQPSQVPATTVAHTATQQAAPAPPAVSPREALMEAM HTVPVPPTTVTRTDSLGDAPAGRGTTASPTLSPEEEDDIRNVI GRCKDTLSTITGPTTQNTYGRNEGAWMKDLAKDERIYVTNYYY GNTLVEFRNLENFKQGRWSNSYKLPYSWIGTGHVVYNGAFYNNR AFTRNIIKYDLKQRYVAAWAMLEDVAYEEATPWRWQGHSDVDFA VDENGWLIIYPALDDEGFSQEVIVLSKLNADLSTQKETTWRTG LRRNFYGNCFVICGLVAVDSYNQRNANISYAFDTHNTNTQIVPR LLFENEYFYTTQIDYNPKDRLLYAWDNGHQVTYHVIFAY
6436	1295	341	GACRPPVRQDPDSGPDYEALPAGATVTTMHVAGAVAGILEHCV MYPIDCVKTRMQSLQPDPAARYNVLEALWRIIRTEGLWREMRGL NVTATGAGPAHALYFACYEKLKKTLSDVHHPGGNSHIANGAAGC VATLLHDAAMNPAEVVKQRMQMYNSPYHRVTDVRAVWQNEGAG AFYRSYTTQLTMNVFPQAIHFMTYEFLEBHPNQRNPNSSSHVL SGACAGAVAAAATTPLDVCKTLNLTQESLALNSHITGHTGMAS AFRTVYQVGGVTAYFRGVQARVIYQIPSTAIAWSVVEFFKYLIT KRQEEWRAGK
6437	1828	360	PPAPAPASPARHVTRTARGHLEGGSRAPPLQAVFLQIKNMVK LIHTLADHGDDVNCCAFSFSLLATCSLDKIRLYSLRDFTELPH SPLKFHTYAVHCCCFSPSGHILASCSTDGTTVLWNTENGQMLAV MEQPSGSPVRVCQFSFDSTCLASGAADGTVVLWNAQSYKLYRCG SVKDGSLAACAFSPNGSFFVTGSSCGDLTVWDDKMRCLHSEKAH DLGITCCDFSSQPVSDGEQGLQFFRLASCQDCQVKIWIIVSFTH ILGFELKYKSTLSGHCAVPLACAFSHDGMVLSGVSVDKSVIVYD

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			TNTENILHTLTQHTRYVTTCAFPNTLLLATGSMCKTVNIWQFD LETLCQARSTEHQLKQFTEDWSEEDVSTWLCAQDLKDLVGIFKM NNIDGKELLNLTKESSLADDLKIESLGLRSKVLKIEELRTKVKS LSSGIPDEFICPITRELMKDPVIASDGYSYEKEAMENWDPAKRNR RTSP
6438	109	901	EVQILRAKMFQTGGLIVFYGLLAQMAQFGGLPVPLDQTLPLNV NPALPLSPTGLAGSLTNALSNGLLGGLLGILENPLLDILKPG GGTSGGLLGGLLGKVTSPVPGNNIIDIKVTPQLLEGLVQSP DGHRLVVTIPLGIKLQVNTPLVGASLLRLAVKLDITAEILAVRD KQERIHVLVDCTHSPGSLQISLLDGLGLPIQGLLDSLTGILN KVLPELVQGNVCPLVNEVLRGLDITLVHDIIVNMLIHGLQFVIKV
6439	23	412	SIQTASAITTEMASQSQGIQQLLQAEKRAEKVADARKRKARRL KQAKEEAQMEVEQYRREHEHFQSKQQAAMGSQGNLSAEVEQAT RRQVQGMQSSQQRNRERVLAQLLGMVCDVREPOVHPNYRISA
6440	3	517	RARWNSDMGDLPLGLVRLSIALRIQPNDDGPVYKVDGQRFQNR IKLLTGSSSYKVEVKIKPSTLQVENISIGGLVPLLEKSKBPDGD RVVYTGTYDTGVTPTKSGERQPIQITMPFTDIGTFETVWQVKF YNYHKRDHCQWGSPPFSVIEYECKPNETRSLMWVNKESFL
6441	234	1373	KSGGLRRRQRPGRSAAVGEEELPPGMEKFKAAMLLGSVGDALGY RNVCKENSTVGMKIQEELQSSGGLDHLVLSPGEWVPSDNTIMHI ATAEALTTDYWCLDDLYREMVRCYVEIVEKLPERRPDPATIEGC AQLKPNNYLLAWHTPFNEKSGSGGAATKAMCIGLRYWKEPERLET LIEVSVECGRMTHNHTGFLGSLCTALFVSFAAQGKPLVQWGRD MLRAVPLAEYCRKTIHTAEYQEHWFYFEAKWQFYLEERKISK DSENKALIFPDNYDAEEREKTYRKWSSEGRGRRGHDAPIAYDA LLAAGNSWTELCHRAMFHGGESAATGTIAGCLFGLLYGLDLVPK GLYQDLEDKEKLEDLGAALYRLSTEEK
6442	34	796	AEDPAGGLAGODTMFARGLKRKCVGHEEDVEGALAGLKTVSSYS LORQSLDMSLVKLQCHNLVEPNLCRSVLANTVRQIQEEMTQ DGTWRTVAPQAERAPLDRLVSTELCRAANGQEGAHPASGLGD GHTQGPVSDLCPVTSQAAPRHLQSSAWEMDGPENRGSFHKSID QIFETLETKNPSCMEELFSDVDSPPYDLDITVLTCMMGGARPGPC EGLEGLAPATPCPSSSSCKDGLGELDHVVILVET
6443	2	555	MASPAASSVRPPRPKKEPQTLVTPKNAEEQKLKLERLMKNPDK AVPIPEKMSSEWAPRPPEFVRDVMGSSAGAGSGEFHVYRHLRRR EYQRQDYMDAMAEKQKLDAEFQKRLKKNKIAABEQTAKRKKRQ KLKEKLLAKMKLEQKKQEGPGQPKEQSSSSAASGTEEBEE VPSFTMGR
6444	390	899	GSTPRGKMRAPIPEPKPGDLIEIFRPFYRHWAIYVGDGYVVHLA PPSEVAGAGAASVMSALTDKAIIVKKELLYDVAGSDKYQVNNKHD DKYSPLPCSKIIQRAEELVGQEVLYKLTSNCEHFVNELRYGVA RSDQVRDVI I AASVAGMGLAAMSLIGVMFSRNKRQKQ
6445	2	753	AGAAGAAGAARSPPQAHTKGVRLPSRRRSPDCGRMELAGSF SEEQFWEACAELOQPALAGADWQLLVETSGISYRLLDKKTCLY EYKVGVLDCSPDLLADIYMSDYRKQWDQYVKELYEQECNGE TVVYWEVKYPPFMSNRDYYVLRQRDLMEGRKIHVILARSTSM PQLGERSGVIRVKYKQSLAIESDGKKGSKVFMYYFDNPGGQIP SWLINWAAKNGVFNFLKDMARACQNYLKK
6446	1	1651	RCPTRSPPPDTPGSRGTAMCSLASGATGGRGAVENEDLPBLS DSGDEAAWEDEDDADLPHGKQQTPLCFNRLTSAEBTFSCKS EHQFNIDSMVHKHGLEFYGYIKLINFIRLKNPTVEYMNSIYNPV PWEKEEYLPVLEDDLLQFDDVEDLYEPVSVFSPYNGLSENTS VVEKLLKHEARALSAAALARAREDLQMKQFAQDFVMHTDVRT CSSSTSVIADLQDEDEGVYFSSYGHYGIHEEMLKDKIRTESYRD FIYQNPFIKDKVVLVDGCGTGLSMFAAKAGAKKVLGVDQSEI

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			LYQAMDIIRLNKLEDTTTLIKGKIEEVHLPVEKVDVITSEWMGY FLLFESMLDSVLYAKNKYLAKGGSVYPDICTISLVAVSDVNKHA DRIAFWDDVYGFKMSCMKKAVIPEAVVEVLDPKTLISEPCGIKH IDCHTTSISDLEFSSDFTLKTRTSMCTAIAGYFDIYFEKNCHN RVVFSTGPQSTKTHWKQIVFLLEKPFPSVKAGEALKGKVTVHKNK KDPRSLTVTLTLNNSTQTYGLQ
6447	1554	1068	RLGPAEWHLSGPGCHATLGAANRGRALGVRAAWRGAPLCQRMMP SRTNLATGIPSSKVKYSLSSDDGYIDLQPKKTPPKIPYKAIA LATVFLILGAFLLIIGSLLLSGYISKGGADRAVPVLIIGILVFL PGFYHLRIAYYASKGYRGYSYDDIPDFDD
6448	74	559	GQVLSHCYHYRSSRWRRGGLSRGRGAGVMAVLPYEETTFEGLQK FHKPLATFSFANHTIQRQDWRHLGVAAVVWDAIVLSTYLEMG AVELGRSAVELGAGTGLVGI AALLACRIRYERDNNFLAMLER QFIVRKVHYDPEKDVHIYEAQKRNOKEDL
6449	597	1876	EYGVCCENLRKLEITGVSCRDVYAKLHRYRHILGLWQPDIGPYG GLLNVDVGLFTIGWMYLPPHDPHVDEPMRFKPLFRIHLMERKA ATVECMYGHKGPHGHQIVKKDEFSTKCNQTDHHRMSGGRQEE FRTWLREEWGRITLEDIFHEHMQELILMKFIYTSQYDNCITYRRI YLPPSRPDDLIKPLGPKGTYSHGLEIVMLSFHGRRARGTKITG DPNIPAGQQTVEIDLRHRIQLPDLNQRNFNELSRIVLEVRERV RQEQQEGGHEAGEGRGRGQSPSPAPRAEAPSKGPDGTPC EDGGEGDAAVAAAEQPAQCGGQPPFVLPVGVSSRNEDYPRTCRM CFYGTGLIAGHGFTSPERTPGVFILFDEDRFGFVWLELKSFSLY SRVQATFRNADAPSPQAFDEMLKNIQSLTS
6450	848	269	FVPAPRTVSGKRSLEGEWEEREGEQRTGREFSNGGRAVEAAR MRLLCGLWLWLSLLKVLQAQTPTPLPLPPMQSQGNQFQGEWF VLGLAGNSFRPEHRALLNAFTATFELSDDGRFEVWNAMTRGQHC DTWSYVLIPAAQPGQFTVDHRVWTHEQAGRFQDQPAQQLVAAS RDAGPVHLPGQSSGGLG
6451	232	939	HSPTPTSPRASTMEDVKLEFFSLPQCKEDAEWETYPMRREMQE ILPGLFLGPYSSAMSKLPVLQKHGITHIICIRONIEANFIKPN FQQLFRYLVLDIADNPVENIIRFFPMTEFIDGSLQMGKVLVH GNAGISRSAAEFVIAYIMETFGMKYRDAFAYVQERRFCINPNAGF VHQLQYEAIYLAULTIQMMSPLQIERSLSVHSGTTGSLKRTHE BEDDFGTMQVATAQNG
6452	1	652	RTRGESSNMEPLAAYPLKCSGPRAKVFVALLSVLCTVTILFLQ LKFLKPKINSFYAFEVKDAKGRTVSLEKYKGKVLVNVASDCQ LTDNRNGLGLKELHKEFGPSHFSVLAFPCNQFGESEPRPSKEVES FARKNYGVTFPIFHKIKILGSEGEPAFRFLVDSKKEPRWNFWK YLVNPEGQVVKFWRPEEPIEVIRPDIAALVRQVIKKKEDL
6453	827	223	HRRWLPGLSMSFRRTLPRPLSLCLSLCLCLCLAAALGSAQSGSC RDKKNCKVVSQQLRKRLTPLQYHVTQEKGTESAFEGEYTHHK DPGIYKCVVCGTPLFKSETKFDGSGSGWPSFHDVINSEAITFTDD FSYGMHRVETSCSQCGAHLGHI FDDGPRPTGKRYCINSAALSFT PADSSGTAEAGSGVASPAQADKAEL
6454	827	223	HRRWLPGLSMSFRRTLPRPLSLCLSLCLCLCLAAALGSAQSGSC RDKKNCKVVSQQLRKRLTPLQYHVTQEKGTESAFEGEYTHHK DPGIYKCVVCGTPLFKSETKFDGSGSGWPSFHDVINSEAITFTDD FSYGMHRVETSCSQCGAHLGHI FDDGPRPTGKRYCINSAALSFT PADSSGTAEAGSGVASPAQADKAEL
6455	1042	173	RVHLATVSASAAWDALGLPVRSHMQGSTRMGVMTDVHRRFLQL LMTGHVLEEDVKRLQTHCYKVHNRNATVDKLEDFINNINSVLE SLYIEIKRGVTEDDGRPIYALVNLTATTSISKMATDFAENELDLF RKALELIIDSETGFASSTNINLVDQLKGKKMRKKEAQVLQKF VQNKWVLEKEGEFTLHGRAILEMEQYIRETYPDAVKICNIHSL



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			LIQQQSCETCGIRMHLPVAKYFQSNAPRCPHCNDYWPHEIPK VPDPEKERESGVLSKNKSLRSRQH
6456	2	555	RPQSRSTSMWRNSLLQVSSGLRWLRVCAMVDILGERHLVTCGKA TVEAEALQNKVVALYFAAARCAPSRDFTPLLCDFYALVAEAR RPAPFEVVFVSADGSSQEMLDPMRELHGAWLALPFHDPYRHELR KRYNVTAIPKLIVKQNGEVITNKGKQIRERGLACFQDNVEAA DIFQNFVS
6457	23	892	PTTGFVPVTFPNWPDGKPPIMILYVSKLNKI IHFFDFDKKIPV KLFPLPLLYVGNHISGLSSTSKLSLPMFTVLRKFTIPLTLLET IILGKQYSLNIILSVFAIILGAFIAAGSDLAFLNLEGYIFVFLND IFTAANGVYTKQMDPKELGKYGVLFYNACFMIPTLIISVSTG DLQQATEFNQWKNVVFILQFLLSCFLGFLLMYSTVLC SYNSAL TTAVVGAIKNVSVAYIGILIGGDYIFSLNLFVGLNICMAGGLRY SFLTLLSSQLKPKPVGEENICLDLKS
6458	23	892	PTTGFVPVTFPNWPDGKPPIMILYVSKLNKI IHFFDFDKKIPV KLFPLPLLYVGNHISGLSSTSKLSLPMFTVLRKFTIPLTLLET IILGKQYSLNIILSVFAIILGAFIAAGSDLAFLNLEGYIFVFLND IFTAANGVYTKQMDPKELGKYGVLFYNACFMIPTLIISVSTG DLQQATEFNQWKNVVFILQFLLSCFLGFLLMYSTVLC SYNSAL TTAVVGAIKNVSVAYIGILIGGDYIFSLNLFVGLNICMAGGLRY SFLTLLSSQLKPKPVGEENICLDLKS
6459	23	892	PTTGFVPVTFPNWPDGKPPIMILYVSKLNKI IHFFDFDKKIPV KLFPLPLLYVGNHISGLSSTSKLSLPMFTVLRKFTIPLTLLET IILGKQYSLNIILSVFAIILGAFIAAGSDLAFLNLEGYIFVFLND IFTAANGVYTKQMDPKELGKYGVLFYNACFMIPTLIISVSTG DLQQATEFNQWKNVVFILQFLLSCFLGFLLMYSTVLC SYNSAL TTAVVGAIKNVSVAYIGILIGGDYIFSLNLFVGLNICMAGGLRY SFLTLLSSQLKPKPVGEENICLDLKS
6460	23	892	PTTGFVPVTFPNWPDGKPPIMILYVSKLNKI IHFFDFDKKIPV KLFPLPLLYVGNHISGLSSTSKLSLPMFTVLRKFTIPLTLLET IILGKQYSLNIILSVFAIILGAFIAAGSDLAFLNLEGYIFVFLND IFTAANGVYTKQMDPKELGKYGVLFYNACFMIPTLIISVSTG DLQQATEFNQWKNVVFILQFLLSCFLGFLLMYSTVLC SYNSAL TTAVVGAIKNVSVAYIGILIGGDYIFSLNLFVGLNICMAGGLRY SFLTLLSSQLKPKPVGEENICLDLKS
6461	1653	360	LQQRFLRITAVGQTHPIAWMAWEPSLGAFYGPASFITFVNCMYF LSIFIQLKRHPERKYELKEPTEEQRLAANENGEINHQDSMSLS LISTSALENEHTFHSQLLGASLTLLLYVALWMPGALAVSLYYPL DLVFSFVFGATSLSFSAFFVHHCVNREDVRLAWIMTCCPGRSS YSVQVNVQPPNSNGTNGEAPKCPNSSAESSTCNKSASSFKNSSQ GCKLTNLQAAAAQCHANSPLNSTPOLDNSLTEHSMNDNDIKMHV APLEVQFRNTNVHSSRRHKNRSKGRASRLTVLREYAYDVPTSVE GSVQNGLPKSRGNNEGHSRRRAYLAYRERQYNPPQQDSSDAC STLPKSSRNFEKPVSTTSKKDALRKPAVVELENQQKS YGLNLAI QNGPIKSNQEGPLLGTSTGNVRTGLWKHETTV
6462	3	773	SEELDREKKLKEDSPRKTPNKESGVPSLPVSLTSIKEEPKEAKH PDSQSMEEESKLKNDKRKTPVNWKDSRGTRVAVSSPMQHSYIQ YLHAYFYPQMYDPSHPAYRAVSPVLMHYSY?GAYLSPGFHYPVY GMSGRETEKVNTPSPSVNTKTTTESKALDLLQCHANQYRSKSPA PVEKATAEREREAEERDRHSPFGQRHLHTHHHTHVGMGYPLIP GQYDPFQGLTSAALVASQVAAQASASGMFPGQRE
6463	2	350	VILCILGGWIFKNADRSMBKKKGEPRTAEARPVWDEDLKSSD LHQAEEADAWEQSEENVEHIPFHHNHYPEKEMVKRSQEFYELL NKRRSVRFISNEQVPMVIDNVIRTAGL
6464	12	1154	GILRQKEREERNRTHKKEILFLEHLLVVPSEMSSLSGKVQTVLG

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			<p>LVEPSKLGRTLTHEHLAMTFDCCYCPFPCCQEAISKEPIVMKNL</p> <p>YWIQKNAYSHKENLQNLQETEAKEBLLYFKANGGGALVENTTT</p> <p>GISRDTQTLKRLAETGVHIIISGAGFYVDATHSSSETRAMSVEQL</p> <p>TDVLMNEILHGADGTSIKCGIIGETGCSWPLTESERKVLQATAH</p> <p>AQAQLGCPVITHEGRSSRAPFQIRILQEAADISKTVMMSHLDR</p> <p>TILDKKELLEFAQLGCYLEYDLFGTELLHYQLGPDIDMPDDNKR</p> <p>IRRVRLVVEEGCEDRILVAHDHITKTRLMKYGGHGYSHILTNVV</p> <p>PKMLLRGITENVLDKILNIENPKQWLTFK</p>
6465	126	1396	<p>KMTVFFKTLRNHWKKTATAGLCLLTWGGHWLYGKHCDNLLRRAAC</p> <p>QEAQVFGNQLIPPNAQVKKATVFLNPAACKGKARTLFEKNAAPI</p> <p>LHLSGMDVTIVKTDYEGQAKLLELEMENTDVIIVAGGDTGLQEV</p> <p>VTGVLRRRTDEATFSKIPGFIPLGETSSLSHTLFAESGNKVQHI</p> <p>TDATLAIKGETVPLDVLQIKGEKEQPVFAMTGLRWGSRDAGV</p> <p>KVSKYWYLEPLKIKAAHFFSTLKKEWPQTHQASISYTGPTERPEN</p> <p>EPEETPVQRPSPLYRRILRLRLASYWAQPDALSQEVSPVWKDVO</p> <p>LSTIELSITTRNNQLDPTSKEDFLNICIEPDTISKGDFITIGSR</p> <p>KVRNPKLHVEGTECLQASQCTLLIPEGAGGSFSDSEYEAMFV</p> <p>EVKLLPRKLQFFCDPRKREQMLTSPTQ</p>
6466	1134	828	<p>VARGTELSQLEKAHPADMGRRKSKRKPPPKKMTGTLETQFTC</p> <p>PFCNHEKSCDVKMDRARNTGVISCTVCLLEEFQTPITYLSEPVDV</p> <p>YSDWIDACEAANQ</p>
6467	301	2571	<p>GELRVIALAHGELACHAVLTASLLSLRSRLMSDMDYBRPNVET</p> <p>IKCVVVGDNVAGKTRLIICARACNATLTQYQLLATHVPTVWAIDQ</p> <p>YRVCQEVRLERSRDVDDVSVSLRLWDTFGDHHKDRRFAYGRSDV</p> <p>VVLCSFIANPNLSLHHVKTWVPEIKHFCPRAPVILVGCQLDLRY</p> <p>ADLEAVNRARRPLARPIKPNEILPPEKGREVAKELGIPYYETSV</p> <p>VAQFGIKDVPDINAIRALISRRHLQFWKSHLRNVQRPLQAPFL</p> <p>PPKPPPIIVVPDPPSSSECPAHLLEDPLCADVILVLQERVRI</p> <p>FAHKIYLSSTSSKFYDLFLMDLSEGLGPGSEPGGTHPEDHQGH</p> <p>SDQHSHHHHHHHHGRDFFLLRAASFVDCESVDEAGSGPAGLRAS</p> <p>SDGILRGNGTGYPGRGRVLSWSRAVFSIQEEMAEDPLTYKSR</p> <p>LMVVVKMDSSIQPGPFRAVLKYLYTGELDENRDLMHIAHIAEL</p> <p>LEVFDLRMMVANILNNEAFMNQETKAFHVRRTNRVKECLAKGT</p> <p>FSDVTFILDDGTISAHKPLLISSCDWMAAMFGGPFVESSTREVV</p> <p>FPYTSKSCMRVLEYLYTGMFTSSPDLDMDKLIILANRLCLPHL</p> <p>VALTEQYTVTGLMEATQMMVDIDGDVLVFLLELAQFHCAYQLADW</p> <p>CLHHICTNYYNNVCRKFPRDMKAMSPENQYEFKHRWPPVWYLKE</p> <p>EDHYQRARKEREKEDYLHLKRPKRRLFWNSPSSPSSSAASSS</p> <p>SPSSSSAVV</p>
6468	3	1374	<p>DAWAGTNMAALAPVGSPASRGPRLAAGLRLLPMLGLLQLLAEPG</p> <p>LGRVHHLALKDDVRHKVHLNTFGFFKDGVMVNVVSSLSLNEPED</p> <p>KDVTIGFSLDRTKNDGFSSYLDDEVNYCILKKQSVSVTLILDI</p> <p>SRSEVRVKSPEAGTQLPKIIFSRDEKVLGQSQEPNVNPNASAGN</p> <p>QTQKTQDGGKSKRSTVDSKAMGEKSFVHNNGGAVSFQFFFNIS</p> <p>TDDQEGLYSLYFHKCLGKELPSDKFTFSLDIEITEKNPDSYLSA</p> <p>GEIPLPKLYISMAFFFLSGTIWIHLKRRNDVFKIHWLMAAL</p> <p>PFTKSLSLVFAIDYHYISSQGFPIEGWAVVYVYITHLLKGALLF</p> <p>ITIALIGTGWAFIKHILSDKDKKIFMIVIPRRVLANVAYIIIES</p> <p>TEEGTTEYGLWKDSLFLVDLLCCGAILFPVVWSIRHLQESATD</p> <p>GKGKFSRAHFVLLSL</p>
6469	3	1374	<p>DAWAGTNMAALAPVGSPASRGPRLAAGLRLLPMLGLLQLLAEPG</p> <p>LGRVHHLALKDDVRHKVHLNTFGFFKDGVMVNVVSSLSLNEPED</p> <p>KDVTIGFSLDRTKNDGFSSYLDDEVNYCILKKQSVSVTLILDI</p> <p>SRSEVRVKSPEAGTQLPKIIFSRDEKVLGQSQEPNVNPNASAGN</p> <p>QTQKTQDGGKSKRSTVDSKAMGEKSFVHNNGGAVSFQFFFNIS</p> <p>TDDQEGLYSLYFHKCLGKELPSDKFTFSLDIEITEKNPDSYLSA</p>

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			GEIPLPKLYISMAFFFFLSGTTIWIHLRKRNDVFKIHWLMAAL PFTKSLSLVFHAIDYHYISSQGFPIEGWAVVYIITHLLKGALLF ITIALIGTGWAFIKHILSDKDKKIFMIVIPRRVLNVAYIITES TEEGTTEYGLWKDSLFLVDLLCCGAILFPVWVSIRHLQESATD GKGKFSRAHFVLLSL
6470	2726	1437	AAASGVSSRADAPVLAQSPASAGNRPSTPRVPGSRRHPSAPRS GPLPREDCRTPGPQLPLPGALLRPRTLLSSAAETGRSRHPDT QHPSSGCRRCRGTESPSSAAGRPAASMAEAEEDCHSDTVRADDE ENESPAETDLQAOLOMFRAQWMEFAPGVSSNLENRPCRAARG SLQKTSADTKGKQEQAKEEKARELFLKAVEEEQNGALYEAIFY RRAMQLVPDIEFKITYTRSPDGDGVGNSYIEDNDDSKMADLLS YFQQQLTFQESVLKLCQPELESSQIHISVLPMEVLMYIFRWVVS SDLDLRLSLEQLSLVCRGFYICARDPEIWRRLACLKVGWGRSCTKL PYTSWREMFLEPRPRVFDGVYISKTTYIRQGEQSLDGFYRAWHQ VEYYRYIRFFPDGHVMMLTTPPEPQSIVPRLRTR
6471	1750	299	FFFDKMAAGSGVGGKRSSKSDADSGFLGLRPTSDPALRRRRR GPRNKKRGWRRLAQEPFLGLEVDQFLEDVRLQERTSGGLLSEAPN EKLFPVDTGSKEKGLTKKRTKVQKKSLLLKKPLRVDLILENTSK VPAPKDVLAHQVPNAKKLRKEQLWEKLAQGELEPREVRAQAR LLNPSATRAKPGPQDTPVERPFYDLWASDNPLDRPLVGQDEFFLE QTKKKGVKRPARLHTKPSQAPAVEVAPAGASYNPSFEDHQTLLS AAHEVELQRQKEAEKLERQLALPATEQAATQESTFQELCEGLLE ESDGEFEGGQEGEPEAGDAEVCPTPARLATTEKKTEQQRREKA VHRLRVQQAALRAARLRHQELFRLRGIAQVALRLAELARRQRR RQARREAEADKPRRLGRLKYQAPDIDVQLSSELTSLRTLKPEG NILRDRFKSFQRRNMIEPRERAKFKRKYKVKLVKRAFREIQ
6472	3	897	SCGSDRAQWAMEFPDVALFPERITVLDQHLRPPARRPGTTTP ARVDLQQQIMTIIDELGKASAKAQNLSAPITSASRMQSNRHVVY ILKDSARPAGKGAIGFIKVGKLFVLDDREAHNEVEPLCIL DFYIHESVQRHGHGRELFQYMLQKERVEPHQLAIDRPSQKLLKF LNKHYNLETTVPQVNNFVIFEGFFAHQHRPPAPSLRATHRSRAA AVDPTAPAPARKLPKRAEGDIKPYSSSDREFLKVAVEPPWPLN RAPRRATPPAHPPPRSSSLGNSPERGPLRPFVP
6473	22	912	SSAVEFVWEGEKMAAEFNTETIQTFLKRLRAVPTNKACFDCCAK NPSWASITYGVFLCIDCSGVHRSGLVILSFIRSTELDSNNWVQ LRMCQVGGNANATAFTRQHGCTANDANTKYNSRAAQMYREKIRQ LGSAAALRHGTDLDWIDNMSSAVPNHSPKKDSDFTEHTQPPAW DAPATEPSGTQQPAPSTESSGLAQPEHGPNTDLLGTSFKASLEL KSSIIGKKKFAAAKGLGAKKGLGAQKVSSQSPSEIERQAQVAE KLREQQAADAKKQAEESMVASMLAYQELQIDR
6474	3	462	LQRQRHPAAAPAVPVRCFTFCFTDIVIMPKRKSPENTEGKDGS KVTKQEPTRRSARLSAKPAPPKPEPKRKTSAKKEPGAKISRGA KGKKEEKQEQAGKEGTAPSENGETKAEIHSRSTVNVSTSRGTP PSTLSVKQGQIETVRVKGTEN
6475	3	462	LQRQRHPAAAPAVPVRCFTFCFTDIVIMPKRKSPENTEGKDGS KVTKQEPTRRSARLSAKPAPPKPEPKRKTSAKKEPGAKISRGA KGKKEEKQEQAGKEGTAPSENGETKAEIHSRSTVNVSTSRGTP PSTLSVKQGQIETVRVKGTEN
6476	106	1090	ARAMAQYKGTMRERAGRAMHLKKRERQREQMEVLKQRIAEETIL KSQVDKRFSAHYDAVEAELKSSTVGLVTLNDMKARQEALVRERE RQLAKRQHLQEQRLQEQERQEQRRERKRKISCLSFALDDLLD QADAAEARAGNLGNPDVDTSLFDRDREEEENRLREELRQEW EAQREKVKDEEMEVTFSYWDGSGHRRTRVRVKGNVTQQFLKKAL QGLRKDFLELRSAGVEQLMFIKEDLILPHYHTFYDFIARARGK SGPLFSFDVHDDVRLLSDATMEKDESHAGKVVLRWSYKKNKHIF PASRWEAYDPEKKWDKYTIR

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6477	227	915	LQGHLMGIMAASRPLSRFNEWGKNIVCVGRNYADHVREMRSAVL SEPVLFLKLPSTAYAPEGSPILMPAYTRNLHHELELGVVMGKRCR AVPEAAAMDYVGGYALCLDMTARDVQDECKKGLPWTAKSFTA SCPVSAPFVPEKIPDPHKLKLWLKVNGLRQEGETSSMIFSFY IISYVSKIITLEEGDIILTGTTPKGVGPVKENDEIEAGIHGLVSM TFKVEKPEY
6478	2	1495	FVSSRILPESLASSEASTLEAMGRK3EDDCSSNKKQTNTNRKTF IFMEVLGSGAFSEVFLVKQRLTGKLFALKCIKSPAFRDSLEN EIAVLKKIKHENIVTLEDIYESTTHYLLVMQLVSGGELFDRILE RGVYTEKDASLVIQQVLSAVKYLHENGIVHRDLKPENLLYLTP ENSKIMITDFGLSKMEQNGIMSTACGTPGYVAPEVLAQKPYSKA VDCWSIGVITYILLCGYPPFYEETESKLFKEIKEGYBFESPF DDISESAKDFICHLLKDPNERYTCEKALSHPWIDGNTALHRDI YPSVSLQIQKNFAKSKWRQAFNAAVHHMRKLMHNLHSPGVRP EVENRPPETQASSTRPSSPEITITEAPVLDHVALPALTLQPC QHGRPTAPGGRSLNCLVNGSLHISSSLVPMHQGSLAAGPCGCC SSCLNIGSKGKSSYCSPTLLKANKKQNFKSEVMVPVKASGSS HCRAGQTGVCLIM
6479	3	949	SCRGPQWHPAGGQAGAMELLSALSGLGELALSFSRVPLFPVFDLS YFIVSILYLKYEPGAVELSRRHPIASWLCAMLHCFGSYILADLL LGEPLIDYFNNSSILLASAVWYLIFFCPLDLFYKCVCLPLPVKL IFVAMKEVVRVKIAGVIHHAHHHHYHGWFMVMIATGWVKGSGVA LMSNFEQLLRGVVKPETNEILHMSFPTKASLYGAILFTLQQTRW LPVSKASLIFITLPMVSCVKVFLTATHSHSSPFDALGYICPVL FGSACGGDHHHDNHGSGSHSGGPGAQHSAMPAKSKEELSEGSRK KKAKKAD
6480	192	514	DFMSTYFPIHCPDYLRSAKMTEVMNTQPMEEIGLSPRKDGLSY QIFPDPSDFDRCCCLKDRLPISIVPEPTEGEVESGELRWPEEFL VQDEBQDNCEETAKENKEQ
6481	110	1131	KSRMDLDVNMVFVIAGGTLAIPILAFVASFLLWPSALIRIYYWY WRRITLGMQVRYVHHEDYQFCYSFRGRPGHKPSILMLHGFSAHKD MWLSVVKFLPKNLHLVCVDMPGHEGTTSSLDLSDIDGQVKRIH QFVECLKLNKKPFHLVGTSMGGQVAGVYAYYFSDVSSLWLVP AGLQYSTDNQFVQRLKELQGSAAVEKIPLIPSTPEEMSEMLQLC SYVRFKVPQQILQGLVDVRIPHNNFYRKLFLBIVSEKSRYSLHQ NMDKIKVPTQIIWQKQDQVLDVSGADMLAKSIANCQVELLENG HSVVMERPRKTAKLIIDFLASVHNTDNNKKLD
6482	2517	568	EPVSKVSQSRRKAGVPTANIEESQAVEAAMANVPWAEVCEKFOA ALALSRLVHKNPEKEPYKSKYSARALLEEVKALLGPAPEDDEDE RPEAEDGPGAGDHALGLPAEVVEPEGPVAQRAVRLAVIEFHLGV NHIDTEELSAGEEHLVKCLRLRLRYRLSHDCISLCIQAQNNLGI LWSEREEIETAQAYLESSEALYNQYMKVEGSPPLDPTERFLPEE EKLTEQERSKRFEKVYTHNLYLAQVYQHLEMFKAHCHSTL KRQLEHNAYHPIEWAINAATLSQFYINKLCFMEARHCLSAANVI FGQTGKISATEDTPEAAGEVPELYHQKGEIARCWIKYCLTLMQ NAQLSMQDNI GELDLKQSELRALRKKELDEESIRKAVQFGT GELCDASAVEEKVSYLRPLDFEARELFLGQHYVFEAKFFQ IDGVVTDHIEVVQDHSALFKGLAFFETDMERRCKMHKRRIAMLE PLTVDLNPQYYLLVNRQIQFEIAHAYYDMMDLKVAIADRLRDP SHIVKKINNLSALKYYQLFLDSLRLDENKVPPEHIGEDVLRPA MLAKFRVARLYGKIITADPKKELENLATSLEHYKFIVDYCEKHP EAAQEIEVELELSKEMVSLPLTKMERFRTKMALT
6483	3	623	NSHLLCGLRARAPLSANGREARAMEQRLAEFRAARKRAGLAAQF PAASQGAQTPGEKAEAAATLKAAPGWLRFLVWKPRPASARAQF GLVQEAAPQGSTSETPWNTAIPLPSCWDQSFNTITFLKVLLW LVLLGLFVELEFGLAYFVLSLFYWMYVCTRGPEEKKEGEKSAYS

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6484	201	965	VFNPGCEAIQGTTLTAEQLERELQLRPLAGR QLAVKTKMSGLRPGTQVDPEIELFVKAGSDGESIGNCPFCQRLF MLLWLKGVKFNVTVDMDTRKPEELKDLPAGTNPPFLVYNKELKT DFIKIEEFLEQTLAPPRYPHLSPKYKESFDVGCNLFAPKSAYIK NTQKEANKNFPEKSLLEKFKRLDDYLNTPLLDEIDPDSAEPPVS RRLFLDGDQLTLADCSLLPKLNIKVAACKYRDFDIPAEFSGVW RYLHNAYAREEFTHTCPDEKEIENTYANVAKQKS
6485	6	1091	FVDLVRAVEFLPCPDSQKLEKECQSSEESMGSSNSMRSILEEDEE DEEPPRVLLYHEPRSEFEVGLMVHKKHKYFPFPAVVKSVRQRDK KASVLYIEGHMNPCKMGFTVSLKSLKHFDCKEKQTLNQAREDF NQDIGWCVSLITDYRVRLGCGSFAGSFLEYAADISYPVRKSIQ QDVLGTLKLPQLSKGSPEEPVVGCPGQGRQPCRKMLPDRSRAARD RANQXLVEYIGKAKGAESHLRAILKSRKPSRWLQTLFSSSQYVT CVETYLEDEGQDLVVKYLQGVYQEVGAKVLQRTNGDRIRFILD VLLPEALICAIASAGDEVYKTABEKYIKGPSLSYREKEIFDNQL LEERNRRRR
6486	10	581	LVLQAGGAHLSPSRVTQGIYYMLAFSEMPKPPDYSELSDSLTLA GGTGRFSGPLHRAWRMNFRQRMGWIGVGLYLLASAAAFYYVFE ISETYNRLALEHIQQHPEPLEGTTWTHSLKAQLLSLPFWVWTV IFLVPYLQMFPLYSCTRADPKTVGYCIIPICLAVICNRHQAEV KASNQISRLQLIDT
6487	352	863	SFLKPLRGKMSVTLHTDVGDIKIEVFCERTPKTCENFLALCASN YYNGCIFHRNIGFMVQTGDPTGTGRGGNSIWGKKFEDEYSEYL KHNVRGVVSMAANNPNTNGSQFFITYGQPHLDMKYTVFGKVID GLETLEDEKLPVNEKTYRPLNDVHIKDITIHANPFAQ
6488	878	241	TALQEFGTSGPPLSLRFPALPSGTGRFKPLPGARGPSWPPSPRVP MEPPNLYPVKLYVYDLSKGLARRLSPIMLGKQLEGIWHTSIVVH KDEFPPGSGGSISSCPPGGTLLGPPDSVVDVGSTEVTEEIFLEYL SSLGESLFRGEAYNLFEHNCNTFSNEVAQFLTGRKIPSYITDLF SEVLSTPPGQALRPLLDLSIQIPPGGSSVGRPNQGS
6489	1457	375	KVAKMATALSEEELDNEDYYSLNVRREASSEELKAAYRRLCML YHPDKHRDPKLSQAERLFLNHQAYEVLSDPQTRAIYDIYVKR GLEMEGWVVERRRTPABIREEFERLQREERERLQQRTPNPKGT ISVGV DATDLFDYDEEYEDVSGSSFPQIEINKMHISQSIEAPL TATDTAILSGSLSTQNGNGGGSINFALRRVTSAGWGGELEFGAG DLQGPLFGLKLFRLNLTFRCFVTINCALQFSSRGIRPGLTTVLAR NLDKNTVGYLQWHCSSLQVQRPHRNTACAPEPSFRPFLHVP TWDAECSGARTPSTAWTSAAVKLREACLSPGSGSGHQLLLTPR SKRRTGGG
6490	3	1183	HEAGCEVWLGYGPRAAAAAAATVLFGGAGPTETMFVARSTAAADH KDLIHDVSFDFHGRMATCSSDQSVKVDKSESGDWHCTASWKT HSGSVWRVTWAHPFEGQVLASCSFDRTAAVWEEIVGESNDKLRG QSHWVKRTTLVDSRTSVTDVKFAPKHMGLMLATCSADGIVRIYE APDVMNLSQWSLQHEISCKLSCSCISWNPSSSRAHSPMIAVGSD DSSPNAMAKVQIFEYNENTRKYAKAETLMTVTDVPHDIAFAPNL GRSFHILAIATKDVRIFTLKPVRKELTSSGGPTKFEIHIVAQFD NHNSQVWRVSWNITGTVLASSGDDGCVRLWKANYMDNWKCTGIL KGNCSPVNGSSQQGTSNPSLGSNIPSLQNSLNGSSAGRKHS
6491	3	1183	HEAGCEVWLGYGPRAAAAAAATVLFGGAGPTETMFVARSTAAADH KDLIHDVSFDFHGRMATCSSDQSVKVDKSESGDWHCTASWKT HSGSVWRVTWAHPFEGQVLASCSFDRTAAVWEEIVGESNDKLRG QSHWVKRTTLVDSRTSVTDVKFAPKHMGLMLATCSADGIVRIYE APDVMNLSQWSLQHEISCKLSCSCISWNPSSSRAHSPMIAVGSD DSSPNAMAKVQIFEYNENTRKYAKAETLMTVTDVPHDIAFAPNL GRSFHILAIATKDVRIFTLKPVRKELTSSGGPTKFEIHIVAQFD NHNSQVWRVSWNITGTVLASSGDDGCVRLWKANYMDNWKCTGIL

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6492	34	2573	<p>KGNGSPVNGSSOQGTENPSLGSNIPSLQNSLNGSSAGRKHS</p> <p>IPFLKSCCCCLFDFPPPLDQVQEECEVERVTEHGTTPKPFRRK FDSVAFGESQSEDEQFENDLETPPPNQQLVSREVLLGLKPCEI KROEVINELFYTERAHVRTLKVLDQVPYQVRSREGILSPSELRLK IFSNLEDILQLHIGLNEQMKAVRKRNETSVIDQIGEDLLTWFSG PGEEKLKHAAATPCSNQPPALEMIKSRQKDSRFQTFVQDAESN PLCRRQLKLDIIPQMRRLTKYPLLLDNIAITYTEWPTFRKVKK AADHCRQILNYVNAVKEAENKQRLQEDYQRRLDTSLLKSEYPN VEELRNLDLTTRKMIHEGPLVWKVNRDKTIDLYTLLEDILVLL QKQDDRLVLRCHSKILASTADSKHTFSPVILKSTVLVRQVATDN KALFVISMSDNGAQIYELVAQTVSEKTVWQDLICRMAASVKEQS TKPIPLPQSTPGEGDNDEEDPSKLKEEQHGISVTGLQSPDRDLG LESTLISSKPQSHSLSTSGKSEVRDLFVAERQFAKEQHTDGTLL EVGEDYQIAIPDSHLPVSEERWALDALRNLLGLLQQLVQQLGLT BKSVQEDWQHFPYRTASQGPQTDSDVIQNSENIKAYHSGEGHMP FRITGTGDIATCYSPTSTESFAPRDSVGLAPQDSQASNILVMDH MIMTPEMPTEMEPEGGLDSDGEHFFDAREAHSDENPSEGDGAVNK EEKDVNLRISGNYLILDGYDPVQESSTDEEVASSLTLPMTGIP AVESTHQQHSQPNTHSDGALSPTPEFLVQQRWGAMEYSCFEI QSPSSCADSQSQIMEYIHKIEADLEHLKKVEESYTLICQLRAGS ALTDKHSKDS</p>
6493	557	1147	<p>TPARMAYQGSSTSDCMSKTLDSASAHFAASAVVSAPVPSRSEVA KEQNTGHNHNNINGVVQPSGTSKTLYSTNMALSSSPGISAVQLVRT VGHSTTNHLIPALCTSSPQTLPMNNSCLTNAVHLNNSVSVSPVN VHINTRTSAPSPTALKLATVAASMDRVPKVPSSAIISSIARENH EPERLGLNGIABTTVAMEVT</p>
6494	2425	1052	<p>AVAGGARPCSTPSSPHRRCRHRPRPLRPPPAATMSASAVVYLD LKQKVLICRNYRGDVMSEVEHFMPILMEKEEGMLSPILAHGG VRFMWIKHNNLYLVATSKKNACVSLVFSFLYKVVQVFSEYFKEL EESIRDNFVYIYELDELMDFGYPQTTDSKILQEYITQEGHKL ETGAPRPPATVNAVSWRSEGIKYRKNEVFLDVIESVNLLVSAN GNVLRSEIVGSIKMRVFLSGMPELRLGLNDKVLFDNTGRGKSKS VELEDVKFHQCVRLSRFENDRTISFIPPDGEFELMSYRLNTHVK PLIWIESVIEKSHSRIEYMIKAKSQFKRRSTANNVEIHIPVFN DADSPKFKTTVGSVKWPENSEIVWSIKSFPGGKEYLMRAHFG PSVEAEDKEGKPPISVKFEIPYFTTSGIQVRYLKIIEKSGYQAL PWVRYITQNGDYQLRTQ</p>
6495	2425	1052	<p>AVAGGARPCSTPSSPHRRCRHRPRPLRPPPAATMSASAVVYLD LKQKVLICRNYRGDVMSEVEHFMPILMEKEEGMLSPILAHGG VRFMWIKHNNLYLVATSKKNACVSLVFSFLYKVVQVFSEYFKEL EESIRDNFVYIYELDELMDFGYPQTTDSKILQEYITQEGHKL ETGAPRPPATVNAVSWRSEGIKYRKNEVFLDVIESVNLLVSAN GNVLRSEIVGSIKMRVFLSGMPELRLGLNDKVLFDNTGRGKSKS VELEDVKFHQCVRLSRFENDRTISFIPPDGEFELMSYRLNTHVK PLIWIESVIEKSHSRIEYMIKAKSQFKRRSTANNVEIHIPVFN DADSPKFKTTVGSVKWPENSEIVWSIKSFPGGKEYLMRAHFG PSVEAEDKEGKPPISVKFEIPYFTTSGIQVRYLKIIEKSGYQAL PWVRYITQNGDYQLRTQ</p>
6496	247	559	<p>LRVSVLLPLQLVLFYESTHSLFCIMFLCAQEWLTGLNVPLLFY HFWRYFHCADSSSELAYDPPVVMNADTSLYCQKEAWCKLAFYLL SFFYYLYCMIYTLVSS</p>
6497	1053	352	<p>ANTQICRLCPRRHLPCCGAKVGNTEEDYNFVKVVLIGESGV GKTNLLSRFTRNEFSHDSRTTIGVEFSTRIVMLGTAAVKAQIWD TAGLERYRAITSAYYRGAVGALLVFDLTKHQTAVVERWLKELY DHAEATIVVMLVGKNSDLSQAREVPTEEARMFAENNGLLFLETS ALDSTNVELAFETVLKEIFAKVSKQRQNSIRTNAITLGSQAQACQ</p>

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6498	2636	272	<p>BPGPGKEKRACCISL</p> <p>SLRLCFWGTHTLAGPTTMRLLSSLLALLRPAFLILGLSLGCSLSL</p> <p>LRVSWIQGEGEDPCVEAVGERGGPQNPDNRARLDQSDDFKPRI</p> <p>VPYYRDPNPKPYKKVLRTRYIQTELGSRERLLVAVLTSTRATLSTL</p> <p>AVAVNRTVAHHFPRLLYFTGQGRAPAGMQVVSCHDERPAWLM</p> <p>SETLRHLHTHFGADYDWFIMQDDTYVQAPRLAALAGHLSINQD</p> <p>LYLGRAEEFIGAGEQARYCHGGFGYLLSRSLRLRLRPHLDGCRG</p> <p>DILSARPDEWLGRCLIDSLGVGCVSQHQQQYRSFELAKNRDPF</p> <p>KEGSSAFLSAFVHPVSEGLMYRLHKKRFSALELERAYSEIEQL</p> <p>QAQIRNLTVLTPEGEAGLSWPVGLPAPFTPHSRFEVLGWDYFTE</p> <p>QHTFSCADGAPKCPLOGASRADVGDALETALEQLNRRYQPRLRP</p> <p>QKQRLNGYRRFDPARGMEYTLDLLLECVTQRGHRRALARRVSL</p> <p>LRPLSRVEILPMPYVTEATRVQLVPLLVABAAAAPAFLEAFAA</p> <p>NVLEPREHALLTLLVYGPREGGRGAPDFFLGVKAAAELERRY</p> <p>PGTRLAWLAVRAEAPSQVRLMDVVSKKHPVDTLFFLTWVTRPG</p> <p>PEVLNRCRMNAISGWQAFPPVHFQEFNPALSQRSPGPPGPGAGE</p> <p>DPPSPGADPSRGAPIGGRFDRQASAECCFYNNADYLAARARIAG</p> <p>ELAQEEEEALEGLEVMDFVLRFSGLHLFRVPEGLVQKFSLRD</p> <p>CSPRLSEELYHRCRLSNLEGLGRAQLAMALFEQEQAQNST</p>
6499	3	2040	<p>SCSADTRPSGQAWPTVGLRAAAGAFRTGSPALGPETPQVACL</p> <p>GHPVPRPQVSGGPGAMPDPAHLFFFGSISRABAEHLKLAGM</p> <p>ADGLFLLRQCLRLSGGYVLSLVHVDVRFHHFFIERQLNGTYATAG</p> <p>GKAHCGPAELCEFYSRDPLPCNLKPCNRPSSGLEPQPGVDFC</p> <p>LRDAMVRDYVRQTKLEGEALEQAIISQAPQVEKLIATTATHERM</p> <p>PWYHSSLTREAEERKLYSGAQTGKFLRLRPRKEQGTVALSLIYG</p> <p>KTVYHYLISQDKAGKYCIPEGTKFDTLWQLVEYLKCLKADGLIYC</p> <p>LKEACPNSSASNAGSAAAPTLPAPHSTLTHPQRRIDTLNSDGYT</p> <p>PEPARITSPDKPRPMPMDTSVYESPSYSDPEELKDKKFLKRDNL</p> <p>LIADIELGCGNFGSVRQGVYRMRKKQIDVAIKVLKQGTBKADTE</p> <p>EMMREBAQIMHQLDNPIYVRLIGVCQABALMLVMEMAGGGPLHKF</p> <p>LVGKREEIPVSNVAELLHQVSMGMKYLEEKNFVHRDLAARNVLL</p> <p>VNRHYAKISDFGLSKALGADDSYYTARSAGKWLKMYAPECINF</p> <p>RKFSSRSDVWSYGVTMWEALSYGKPYKMKGPVEMAFIEQGR</p> <p>MECPPECPPELYALMSDCWIKWEDRPDLTVBQMRACYSLA</p> <p>SKVEGPPGSTQKAEAAACA</p>
6500	1773	726	<p>TGPTHASADAWGLVRSVTEWCVANVRGNPCAAALSCPQAVLDAGK</p> <p>MLSESSSFLKGVMLGSTFCALITMLGHIRIGHGNRMHHHEHHL</p> <p>QAPNKEDILKISEDERMELSKSFRVYCIILVKPKDVSLWAAVKE</p> <p>TWTKHCDKAEFFSSENVKFESINMDTNDMWLMMRKAYKYAFDK</p> <p>YRDQYNWFFLARPTTFALIENLKYFLKKDPSQPFYLGHTIKSG</p> <p>DLEYVGMEGGIVLSVESMKRLNLSLLNIFEKCEPQGGMIWKISED</p> <p>KQLAVCLKYAGVFAENAEDADGKDVFNTKSVGLSIKEAMTYHPN</p> <p>QVVEGCCSDMAVTFNGLTPNQMHVMYGVYRLRAFQPYFQ</p>
6501	1	570	<p>LVGMSGGGTETPVGCEAAPGGGSKRDSLGTAGSAHLTIKDLGE</p> <p>IHSRLDHRPVIQGETRYFVKEFEKRGRLREMRVLENLKNMIHE</p> <p>TNEHTLPKCRDTMRDLSQVLQRLQAANDSVCRLLQREQERKKI</p> <p>HSDHLVASEKQHMLQWDFNMKEQPNKRAEVDDEHRKAMERLKEQ</p> <p>YAEKEDLAKFSTF</p>
6502	213	1650	<p>AGNKEDPWAGRNRTAVLPDVSVFHREDVGWWSWLQSSYQAVKE</p> <p>KSSEALEFMKRLDTEFTQVQVQHTACTIAATASVVEKLAITEGS</p> <p>SGATEKMKKGLSDFLGVISDTFAPSPDKTIDCDVITLMGTPSGT</p> <p>AEPYDGTAKRLYSLOSDPATYCNEPDGPPPELFDANLSQFCLEEK</p> <p>KGEISELLVGSPSIRALYTKMVPAAVSHSEFWHRYFYKVHQLQEQ</p> <p>EQARRDALQRAEQSISEEPGWEEEEELMGISPISPKEAKVPV</p> <p>AKISTFPEGEPGQSPCEENLVTSVEPPAEVTPSESSSISLVT</p> <p>QIANPATAPBARVLPKDLSQLLEASLEBQGLAVDVGTGSPSP</p>

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			IHSKPLTPAGHTGGPEPRPPARVETLRREEAPTDLRVFELNSDSG KSTPSNNGKKGSSTDISEDWKDFDLDMTEEEVQMALESKVDSAG EVSGPGGSEGSEPNPGCESSPQPAQLSPQEGPCSLR
6503	213	1650	AGNKPDPWAGNRRTAVLPDVSVFHRFDVGVWRSWLQSSYQAVKE KSSSEALEFMKRDLEFTQVQHDCTACTIAATASVVKEKLATEGS SGATEKMKKGLSDFLGVISDTFAPSPDKTIDCDVITLMGTPSGT AEPYDGTAKARLYSLQSDPATYCNEPDGPPPELFDANLSQFCLEEK KGEISELLVGSPSIRALYTKMVPAAVSHSEFWHRFYKVVHQLAQ EQARRDALQRAEQSISEEPGWEEEEELMGISPISPKEAKVPV AKISTFPEGEFPGQSPCEENLVTSEVPPAEVTPSESSSESISVLT QIANPATAPEARVLPKDLSQLLEASLEEQGLAVDVGETGPPSEPP IHSKPLTPAGHTGGPEPRPPARVETLRREEAPTDLRVFELNSDSG KSTPSNNGKKGSSTDISEDWKDFDLDMTEEEVQMALESKVDSAG EVSGPGGSEGSEPNPGCESSPQPAQLSPQEGPCSLR
6504	2131	1294	GKVCILVAHWVCLSLSPPPAGMKTNPQAQEAEGQOTRAAAGRATG SANMTKKKVSQKKQGRPPSSQPCRNIVGCRISHGWKEGDEPITQ WKGTVLDQVPINPSLYLVKYDGDICVYGLELHRDERVLSLKILS DRVASSHISDANLANTIIGKAVEHMFEGEHGSKDEWRGMVLAQA PIMKAWFYITYEKDPVLYMYQLDDYKEGDLRIMPESSESPPTE REPGGVVDGLIGKHVEYTKEDGSKRIGMVIHQVEAKPSVYFIKF DDDFHIYVYDLVKKS
6505	2131	1294	GKVCILVAHWVCLSLSPPPAGMKTNPQAQEAEGQOTRAAAGRATG SANMTKKKVSQKKQGRPPSSQPCRNIVGCRISHGWKEGDEPITQ WKGTVLDQVPINPSLYLVKYDGDICVYGLELHRDERVLSLKILS DRVASSHISDANLANTIIGKAVEHMFEGEHGSKDEWRGMVLAQA PIMKAWFYITYEKDPVLYMYQLDDYKEGDLRIMPESSESPPTE REPGGVVDGLIGKHVEYTKEDGSKRIGMVIHQVEAKPSVYFIKF DDDFHIYVYDLVKKS
6506	1	1350	EVSPPTSCCLTVAVADPGVSEGFGRFGAGCEMPGRGRCPDCGST ELVEDSHYSQSQLVCSDCGCVVTEGVLTTTFSDEGNLREVITYSR STGENEQVSRSQQRGLRRVRDLRCVQLPPTFEDTAVAYVQAY RHSGIRAAARLQKKEVLVGCCLVITCRQHNWPLTMGAICTLLYAD LDVFSSTYMQIVKLLGLDVPSLCLAEVLKTYCSSFKLFQASPSV PAKYVEDKEKMLSRMTQMLVELANETWLVTRHPLPVITAATFLA WQSLQPADRLSCSLARFCKLANVDLPYPASSRLQELLAVILRMA EQLAWLRVLRDKRSVVKHIGDQLQHRQSLVRSFAFRDGTAEVET REKEPPGWGQGGEGEGVGNNSLGLPQGRPASPALLLPPCMLKS PKRICPVPPVSTVTGDENISDSEIEQYLRTPEVRDFQRAQAAR QAATSVNPP
6507	1878	929	RSHASRLPELPSGCLVLQVQELVQMSGMEATVTIPIWQNKPHGA ARSVVRRIGTNLPLKPCARASFETLENISDLCLRDVPPVPTLAD IAWIAADEEETVARVRSDDRPLRHTWKPSPLIVMQRNASVFNLR GSEERLLALKKFPALPALSRTTELQDELSHLRSQIAKIVAADAAS ASLTPDFLSPGSSNVSSPLPCFGSSFSHTTSFVISDITEETEVE VPPELPSVPLLCASPECKPEHKAACSSSEDDCVLSLKASSFA DMMGILKDFHRMKQSQDLNRSLLKEEDPAVLISEVLRKFKALKE EDISRKGN
6508	862	342	WEARKRPQRWPSERREVRVPPHQLQCRSGLEPGTFRKMAAARP SLGRVLPGSSVFLCDMQEKFRHNIAYFPQIVSVAAARMLENTTL DLLDRGLQVHVVDACSSRSQVDRVALARMRQSGAFLSTSEGL ILQLVGDAVHPQFKEIQKLIKEPAPDSGLLGLFQGNLSLH
6509	2	1053	FWNNPRGGRKRRRQAQAVTQAATRASGTPSPRDGTMTOGKLSVAN KAPGTEGQQQVHGEKKEAPAVPSAPPSYEEATSGEGMKAGAFPP APTAVPLHPSWAYVDPSSSSSYDNGFPTGDHLEFTTFSDWDDQKV RRVFVRKVYITILLIQLLVTLAVVALFTFCDPVKDYVQANPGWYV ASYAVFFATYTLACCSSGPRRHFPPNLLITVFTLSMAYLTGML



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			SSYYNTTSVLLCLGITALVCLSVTVFSFQTKFDFTSQCQGVLFVL LMTLFFSGLILAILLPFYVFWLHAYVYALGAGVFTLFLALDTQ LLMGNRRHSLSPPEEYIFGALNIYLDIITYFTFFLQFLGTNRE
6510	37	1156	PCALDGCPCQAGAVHPLLSSAMGLLAFLKTFQVLLHLLVGFVFWVS GLVINFWQLCTLALWPVSKQLYRRRLNCRSLWSQVLMLEWW SCTECTLFTDQATVERFPGKEHAVIILNHNFEIDFLCGWTMCERF GVLGSSKVLAKKELLYVPLIGWTWYFLEIVFCKRKWEEDRDTVV EGLRRLSDYPEYMWFLLYCEGTRFTETKHRVSMEVAAAKGLPVL KYHLLPRTKGFTTAVKCLRGTVAAVYDVTLNFRGNKNPSLLGIL YGKKYEADMCVRRFPLEDIFLDEKEAAQWLHKLYQEKDALQEIY NQKGMFPGEQFKPARPWTLLNFLSWATILLSPLFSFVLGVFAS GSPLLILTLFLGFVGAGNGHCR
6511	2541	1425	GBEQPLAAAPTECLEQVIGGAGDPGTWASFPSPLPGPAPLKGGK TMATNFSDIVKQGYVKMKSRKLGIRRCWLVFRKSSSGPQRLE KYPDEKSVCLRGCPKVTETISNVKCVTRLPKETKRQAVAIIFTDD SARTFTCDSELEABEYKTLVSVECLGSRINDISLGEPLDAPGV QCEQTDRENFVLLPCPNLDVYGECKLQITHENIYLWDIHNPRVK LVSWPLCSLRRYGRDATRFTFEAGRMCDAGEGLYTFQTQEGEQI YQRVHSATLAIABEQHKRVLLEMEKNVRLNKGTEIHYGYPCTPTT MLPRSAWWHITGSQNIABEASSYAGEGYGAAQASSETDLLNRFI LLKPKPSQGDSSSEAKTPSQ
6512	159	807	FGKSTWFFPLSRSLRVASGRSCKLGHGGYTGSQGFGEPRDSGA EVPSSGSRATGTCERGGVVRGARQGRAPGSSIWRKEPRMVCTRKT TLVSTCVILSGMTNIIICLLYVGWVTNYIASVYVRGQEPAPDKKL BEDKGDTLKIIERLEHLENVIKQHIQEAPAKPEAEAEPTDSS LFAHWGQELSPGRRVALKQFYGYGNAYLSDRPLDRP
6513	2	756	FVSPPEGFSLAQLNLIWQLTDTKQLVHVSFAEGQDQGSAYANRTA LFPDLLAQGNASLRLQVRVADEGSFTCFVSIIRDFGSAAVSLQV AAPYSKPSMTLEPNKDLRPGDTVTITCSSYQGYPEAEVFWQDQV GVPLTGNVTTSQMANEQGLFDVHSILRVVLGANGTYSCLVNRPV LQQAHAHSSVTITPQRSPTGAVEVQVPEDPVVALVGTDATLRCSF SPEPGFSLAQLNLIWQLTDTKQLVHVSFAEGQDQGSAYANRTALF PDLLAQGNASLRLQVRVADEGSFTCFVSIIRDFGSAAVSLQVAA PYSKPSMTLEPNKDLRPGDTVTITCSSYQGYPEAEVFWQDQGV PLTGNVTTSQMANEQGLFDVHSILRVVLGANGTYSCLVNRPVLQ QDAHSSVTITPQRSPTGAVEVQVPEDPVVALVGTDATLRCSFSP EPGFSLAQLNLIWQLTDTKQLVHVSFTEGR
6514	985	302	VGIPGPTISSAEMEDLLDLDEELRYSLATSRKMGRRRAQQESA QAENHLNGKNSSLTLTGETSSAKLPRCQGGWAGDSVKASKFRR KASEIIEFRLRPQSLNGSDYGGDIPIIPDLEEVQBEDFVLQVA APPSIQIKRVMTYRDLNDLMKYSAIQTLDDGEIDLKLLTKVLAP EHEVRERNPSWQDDVGVWDHLPTEVSSSVLTEWDPLQTEKEDP AGQARHT
6515	1345	305	GRVGSRRRGAAPVPGGCGAGSTQLEVSASASCGALGSADMNPIV VHGGGAGPISKDRKERVHCGMVRAATVGYGILREGGSADVAVEG AVVALEDDPEFNAGCGSVLNTNGEVEMDASIMDGKDLGAGAVSA VQCIANPIKLARLVMEKTPHCFLLTDQGAQAQFAAAMGVPEIPGEK LVTERNKKRLEKEKEKGAQKTDCCQKNLGTGVAVALDCKGNVAY ATSTGGIVNKMVGRVGDSPCLGAGGYADNDIGAVSTTGHGESIL KVNLARLTLFHIQCKTVBEAADLSLGYMKSrvKGLGGLIVVSK TGDVWAKWTSTSMWAAAKDKGLHFGIDPDDTTITDLP
6516	1	1402	FRRLRYLGQDATAAARDLRTGLQGYCFSATARQQVLSALQQL KGRRSEHRNENQEMPYSTNKEILIGIMVGTAGISLLLLWYHKVR KPGIAMKLPEFLSLGNTFNSITLQDEIHDDQGTTFVQERQLQI LEKLNELLTNMEELKEEIRFLKEAIPKLEEYIQDELGGKITVHK ISPQHRARKRRRLPTIQSSATSNSSSEAESEGGYITANTDTEEQS

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			FPVPKAFNTRVEELNLDVLLQKVDHLRMSSESGKSEFELLRDHK EKFRDEIEFMWRFARAYGDMYELSTNTQEKKHANIGKTLSERA INRAPMNGHCHLWYAVLCGYVSEFEGLQNKINYGHLEFKEHLDIA IKLLPEEPFLYLKGRYCYTVSKLSWIEKKMAATLFGKIPSSSTV QEALHNFLEKABELCPGYSNPNYMYLAKCYTDLEENQNALKFCNL ALLLPVTVKEDKEAQKEMQKIMTSLKR
6517	3	1414	GRVWGGSSSLNAMVYVRGHAEDYERWQROGARGWDYAHCLPYFR KAQGHLELGASRYRGADGPLRVSRGKTNHPLHCAFLEATQOAGYP LTEDMNGFQQEGFGWMDMTIHGKRWSAACAYLHPALSRTNLKA EAETLVSRVLEFEGTRAVGVYVKNQSHRAYASKEVILSGGAIN SPQLLMLSGIGNADDLKKLGI PVVCHLPVGVQNLQDHLIYIQQ ACTRPTILHSAQKPLRKVCIGLEWLWKFTEGEGATAHLETTGGFIR SQPGVPHPDIOFHFLPSQVIDHGRVPTQGEAYQVHVGPMTGTSV GWLKLRSANPDHPVIQPNYLSTETDIEDFRLCVKLTREIFAQE ALAPFRGKELQPGSHIQSDKETDAFVRKADSAYHPSCTCKMQ PSDPTAVVDPQTRVLGVENLRVVDASIMPSMVSNLNAPTIMIA EKAADI KGGQPALWDKDVVYKPRTLATQR
6518	242	1098	PAWNPGESEPRTRVRPRARSFPLPPPRAPRRRRHRLRAVPGPSR RHRCRRRAPPPSTMGDAGSERSKAPSLPPRCPCGFWGSSKTMN LCSKCFADFQKKQPDSDSAPSTSNQSDLFSEETTSNNNTSIT TPTLSPSQQLPTELVNTSPSKKECGPCTDTAHVSLITPTKRSC GTDSQSENEASPVKRPRLLENTERSEETSRSKQKRRRCFCQQT KLELVQQLGSCRCGYVFCMLHRLPEQBHDCTFDHMGREGEEAIM KMKLDRKVGSRSCQRIGEGCS
6519	3	1113	ERKMAEPPSPVHCVAAAAAPTATVSEKEPFGKLQLSSRDPPGSL AKKVRTEEEKAPRRVNGEGSGGNSRQLQPPAAPSPQSYGSPAS WSFAPLSAAPSPPSSRSSFSFAGTAVPSSASASLSQPGPRKLL VPPTLLHAQPHHLLLPAAAAAASANAKSRRPKEKREKERRRHGL GGAREAGGASREENGVEKPLPRDKIKDKIKBRDKERKKKXHK VMNEIKKENGVEKILLKSGKEKPKTNIEDLQIKKVKKKKKKKHK ENEKRRPKMYKSIQTICSGLLTDVEDQAAGILNDNI KDYVG KNLDTKNYDSKIPENSEFPFVSLKEPRVQNNLRLDTLEFKQLI HIEHQPNGGASVIHCLQ
6520	3	1113	ERKMAEPPSPVHCVAAAAAPTATVSEKEPFGKLQLSSRDPPGSL AKKVRTEEEKAPRRVNGEGSGGNSRQLQPPAAPSPQSYGSPAS WSFAPLSAAPSPPSSRSSFSFAGTAVPSSASASLSQPGPRKLL VPPTLLHAQPHHLLLPAAAAAASANAKSRRPKEKREKERRRHGL GGAREAGGASREENGVEKPLPRDKIKDKIKBRDKERKKKXHK VMNEIKKENGVEKILLKSGKEKPKTNIEDLQIKKVKKKKKKKHK ENEKRRPKMYKSIQTICSGLLTDVEDQAAGILNDNI KDYVG KNLDTKNYDSKIPENSEFPFVSLKEPRVQNNLRLDTLEFKQLI HIEHQPNGGASVIHCLQ
6521	184	1798	KLFKMATDTSQGLVHPKALPLIVGAQLIHADKLGEKVEDSTMP IRRTVNSTRETTPKSKLAEGEEKEPDISSEESVSTVEQENE TPPATISSEAEQPKGEPENEEKEENKSSSEETKKDEKQSKKEKK VKKTIPSWATLSASQLARAQKQTPMASSPRPKMDAILTEATKAC FQKSGASVVAIRKYIIHKYPSLELERRGYLLKQALKRELNRGVI KQVKGKASGSFVVVQKSRKTPQKSRNRKNRSSAVDPEPQVKLE DVLPLAFTRLCEPKEASYSLIRKYVSQYYPKLRVDIRPQLLKNA LQRAVERGQLEQITGKGASGTFQLKKSSEKPLLGGSLMEYAILS ATAAMNEPKTCSTTALKKYVLENHFGTNSNYQMHLKKTLQKCE KNGWMEQISGKGFSGTFQLCFPYYPSPGVLPFKKEPDDSRDEDE DEDESSEEDSEDEPPPKRRLOKKTPAKSPGKAASVKQRGSKPA PKVSAARQKARPLPKAPPKAKTPAKKTRPSSTVIKKPSGGSS KKPATSAKKE
6522	1042	391	NKWLRLSPSRSHRTPESGRVLSLFRLLPPPGMALSGSTPAPCWEED

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			ECLDYYGMLSLHRMFEVVGQQLTECELELLAFLLDEAPGAAGGL SRARSGKLKLLLELERRGQCDESNRLRLGQLLRVLARHDLLEPHLA KRKRFPVSPERYSYGTSSSSKRTEGSCRRRRQSSSSANSQCGSP PTKRQRRSRGRPSGGARRRRRGPQPHPSSSQSPFDLPKAK
6523	2	1097	ASQCRRRTAALDSGERIAGRRSPIALAMASNFNNDIVKQGYVKI RSRKLGIFRRCWLTVFKKASSKGPRRLKFPDEKAAYFRNFHKVT ELHNINIKNITRLPRETKKHAVAIIFHDETSKTFACESELEAEWEC KHLCECLGTRNLNDISLGEPLDLAGVQREQNERFNVYLMPTPN LDYIGECTMQITHENIYLWDIHNKVKLVWVPLSSLRRYGRDST WFTFESGRMCDTGEGFTFQTRREGMIYQKVHSATLAIABQHER LMLEMEQKARLQTSLTEPMTLSKSI SLPRSAWWHHITRQNSVGE IYSLQGNHENRHSDLTGKSKCTSENRFLEENAPLVMYGITHHLF MDTSTCKVVDHLE
6524	2	1097	ASQCRRRTAALDSGERIAGRRSPIALAMASNFNNDIVKQGYVKI RSRKLGIFRRCWLTVFKKASSKGPRRLKFPDEKAAYFRNFHKVT ELHNINIKNITRLPRETKKHAVAIIFHDETSKTFACESELEAEWEC KHLCECLGTRNLNDISLGEPLDLAGVQREQNERFNVYLMPTPN LDYIGECTMQITHENIYLWDIHNKVKLVWVPLSSLRRYGRDST WFTFESGRMCDTGEGFTFQTRREGMIYQKVHSATLAIABQHER LMLEMEQKARLQTSLTEPMTLSKSI SLPRSAWWHHITRQNSVGE IYSLQGNHENRHSDLTGKSKCTSENRFLEENAPLVMYGITHHLF MDTSTCKVVDHLE
6525	1	1859	GESPFSEBESIEFNPSSSGRSARTVSSNSFCSDDTGWPSQSVS PVKTPSDAGNSPIGFCPGSDEGFTKKCTIGMVGEISQSSRYK KESKGLVKPGSEADFSSSSSTGSI SAPEVHMSTAGSKRSSSR NRGPHGRSNGASSHKPGSSPSPREKDLLSMLCRNQLSPVNIHP SYAPSSPSSNSGSGYKGSDCSPIMRRSGRYMS CGENHGVPPNP EQYLTPQQKEVTVRHLKTKLKESERRLHERESEIVELEKSQLAR MREDNIEECHRVEAQLALKEARKEIKQLKQVIETMRSSLADKD KGIQKYFVDINIQKKLESLLQSMEMAHSGSLRDLCLDFPCDS PEKSLTLNPLDLMADGLSLEEOVTGEGADRELLVGDSTANSTD LEDEIVTATTESGDLELVHSTPGANVLELLPIVMGQEEGVSVV BRAVQTDVVPYSPAISELIQSVLQKLQDPCPSLSPDESEPD MESFPESLSALVVDLTNRNPNSAILLSPVETPYANVDAEVHANR LMRELDFAACVEERLDGVIPLARGGVVRQYSSSLVLDLAVAA PVVPTVLWAFSTQRCCTDPVYNIGALLRGCCVVALHSLRRTAFR IKT
6526	2	2034	SGRAGEPEEWRGRQIIDSKETWIPFNSEDSQQLLEAYSSGKGCN GRVVPDGGRYDVHLGERMRYAVYWDELASEVRRCTWFYKGDKD NKYVPYSESFQVLEETMYLAVTLDEWKKKLES PNREIILHNP KLMVHYQPVAGSDDWGSTPMEQGRPTVKGVENISVDTHCGEP LQIDHLVFFVHGIGPACDLRFRSIVQCVNDFRSVSLNLLQTHFK KAQENQQIGRVEFLPVNWHSPHSTGVDVLDLQRTLPISNRLRH FTNDITLDVFFYNSPTYCQTIVDTVASEMNRIYTLFLQRNPDFK GGVSIAGHSLGLILFDILTNOKDSLGDIDSEKGSNLIVMDQGD TPTLEEDLKKLQLEFFDIFEKEKVDKEALALCTDRDLQEIGIP LGPRKKILNYFSTRKNSMGIKRPAPQPASGANIPKESEFCSSSN TRNGDYLDVGIGQVSVKYPRLIYKPEIFFAFGSPIGMFLTVRGL KRIDPNYRFPTCKGFFNIYHPFDPVAYRIEPMVVPGVBEFPMIL PHHKGRKRMHLELRGLTRMSMDLKNLLGSLRMAWKSFTRAPY PALQASSETPEETEAPESTSEKPSDVNTETSVAVKEEVLPIINV GMLNGGQRIDYVLQEKPIESFNEYLFALQSHLCYWESEDTVLLV LKEIYQTQGIQFLDQPLQ
6527	1	922	GWVPLLSRIEPLSDACKIYKQGINIRLDTTLIDFTDMKCQRGDL SFIENGDAAPSESFVVDNEQKVYQRIHHEESEMETEEVDILMS SDIYSATLSTKSI SFTRAQTGWLFREDKTERVGNFLADFYLVNG

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			LVLESRRKREHLSEEDILRNKAIMESLSKGGNIMEQNFEPIRRQSLTPPPQNTITWEEYISAENGKAPHLGRBLVCKESKKTFFKATIAMSQEFPLGIELLLNVLEVVPFKEFNKLREFVQMKLPPGFPVKLDIPVPTTITATVTFOEFYDEFDGSIFTIPDDYKEDPSRFPDL
6528	1	1073	LTGPAAAEPRCAADAGMKRALGRRKGWLRRLKILFCVLGLYIAIPFLIKLCPIQAKLIFLNPFVRVPYFIDLKPKQDQGLNHTCNYYLQPEEDVTIGVWHTVPAVWWKNAQGGKQDMWYEDALASSIPIILYLHGNAGTRGGDHRVELYKVLSSSLGYHVTFDYRGWGDVSGTPESE RGMTYDALHVFWDIKARSGDNVPYIIGHSLGTGVATNLVRRLCE RETPPDALILESPTNIREEAKSHPPSVIYRYFPFGDWFFLDFITSSGIKFANDENVKHISCPILLILHAEDDPVVPFQLGRKLYSIAA PARSFDRDFKVQFVPFHSDLGYRHKYIYKSPPELPRIILREFLGKSE PEHQH
6529	363	2215	THIRYNKIGVVKTMSCGNEFVETLKKIGYPKADNLNGEDFDWLF EGVEDESFLKWFCGNVNEQNVLSERELEAFSILQKSGKPILEGAALDEALKTCKTSDLKTPRLDDKELEKLEDEVQTLKLNKLIQR RNKCQLMASVTSHKSLRLNAKEEEATKKLKQSQGILNAMITKIS NELQALTDEVTLQMMFFRHSNLGQGTNPLVFLSQFSLEKYLSE EQSTAALTLYTKKQFFQGIHEVVESSESQFFNFKIQTPTSCD NQEILEERRLEMARLQLAYICAHQLIHLKASNSSMKSSIKWAE ESLHSLTSKAVDKENLDKISSLTSEIMKLEKEVTQIKDRSLPA VVRENAQLLNMPVVKGDFDLQIAKQDYTTARQELVLNQLIKQKAS FELLQLSYEIELRKHRIYRQLENLVQELSQSNMMLYKQLEML TDPSVSQQINPRNTIDTKDYSTRHLYQVLEGENKKELFLTHGN LEEVAEKLCQNI SLVQDQLAVSAQEHSSFFLSKRNDVMDLCDTL YQGGNQLLLSDQELTEQPHKVESQLNKLNLHLLTDILADVTKRK TLANNKLHQMEREFYVYFLKDELDYLDKDIVENLETQSKIKAVSLED
6530	128	2986	GAHHGATVQVHPLPGSSTIMIHDLCLVFPAPAKAVVYVSDIQ ELYIRVVDKVEIGKTVKAYVRVLDLHKKPFLAKYFPFMDLKLRA SPIITLVALDEALDNYTITFLIRGVAIGTSLTASVTNKAGQR INSAPQQIEVFPPFRLMPKRVTLIGATMQVTSEGGFPQPSNIL FISISNESVALVSAAGLVQGLAIGNGTVSGLVQAVDAETGKVYI SQDLVQVEVLLRAVRIRAPIMRMRTGTQMPIYVTGITNHQNP SFNGAVPGLTFHWSVTKRDLVLRGRHHEASIRLPSQYNFAMNV LGRVKGRGLRAVVKAVDPTSGQLYGLARELSDEIQVQVFEKLQ LLNPEIEAEQILMSPNSYIKLQTNRDGAASLSYRVLDGPEKVPV VHVDEKGLASGSMIGTSTIEVIAQEFPGANQTIIVAVKVSPVS YLRVSMSPVLHTQNKALVAVPLGMTVTFTHVHDNSGDFVFAH SSVLNFAFNRRDDFVQIGKPTNNTCVRTVSVGLTLRVWDKHP GLSDFMPLPVLQAI SPELSGAMVVDVLCATVLTSLGLSGT WSSANSILHIDPKTGVAVARAVGSVTYYYEVAGHLRTYKEVVV SVPQRIMARHLHPITQSFQEATASKVIVAVGDRSSNLRGECTPT QREVIQALHPETLISQSQQFKPAVDFDPSQDVFTVEPQFDTALG QYFCSITMHLRTDKQRKHLMSKKTALVVSASLSSSHFSTEQVGA EVPFSPGLFADQAEILLSNHYTSSEIRVFGAPEVLENLEVKSGS PAVLAFAKEKSPGWPFSFITYTVGVLDPAAGSQGPLSTTLTFSSP VTNQAIAPVTVAFVVDRRGPGPYGASLFQHFLLDSYQVMFFTLF ALLAGTAVMI IAYHTVCTPRDLAVPAALTPRASPGHSPHYFAAS SPTSPNALPPARKASPPSGLWSPAYASH
6531	845	1425	PSASIPPSASDPVPDIRTCHFLVEDPSVGCISGSEKCTISSS SLCMVITITYYDVKVRFIVRGCGQYISYRCQEKRTYFAEYWYQA QCCQYDYCNSWSSPQLQSSLPPEPHDRPLALPLSDSQIQWPHYQAL NLSLPLPNFHAGTEPDGLDPMVTLNLNLGLSFAELRRMYLFLNS SGLVLVLAQAGLLTPHPS
6532	2	954	AAGPPSEVVNQDSLFPPEPEPGPAPQVLLGPGGGLIKGVAPFTL

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			ITDSTGTHLVLTVTNKNHSPGLSRGSPQQFSSQPGSEFAPAPSA QMDLEHPLQLPLFGTPTSLKKKEPPGYEEAMSQQPKQENGSSSQ QMDDLFDILIQSGEISADFKPEPPLPGKEKPSPKTVCSPLAAQ PSPSAELPQAAPPPPGSPSLPGRLEDFLESSTGLPLLTSGHDGP EPLSLIDDLHSQMLSSSTAILDHPPSPMDTSELHFVPEPSSMTGL DLADGHLDSMDWLELSSGPGVLSLAPLSTTAPSLFSTDFLDGHD LQLHWDSCL
6533	1798	373	STISWLARVEPPRRSSGVGAARLRFPFGSRPLRARACVLALAVL ALLERNNADSMSAHSMLCERIAIAKELIKRAESLSRSRKGIEG GAKLCSKLKAEKFLQKVEAGKVAIKESHQSTNLTHLRAIVES AENLEEVSVLHVFGYTDTLGEKQTLVVDVVANGGHTWVKAIGR KAEALHNIWLGRCQYGDKSIIEQAEDFLQASHQPPVQYSNPHII FAFYNSVSSPMAEKLKEMGISVRGDIVAVNALDHPEELQPSSES ESDDEGPELLQVTRVDRENILASVAFPTKIKVDVCKRVNLDITT LITYVSALSYGGCHFIKFKVLTEQAEQERKEQVLPQLEAFMKD KELFACESAVKDFQSILDTLGGPGERERATVLIKRVNVDPQS ERALRLVASSKINSRSLTIFGTGDTLKAITMTANSQFVRAANNQ GVKFSVFIHQPRALTESKEALATPLPKDYTTDSEH
6534	47	596	KATRFISAAPVVLNKGQVSPAKLPHTSWWSLQTLFSLFSGDLA EKSILQCFPCSAMLLELIPLLGIHFVLRRTARAQSVTQPDIIHIVS EGASLELRNYSYGATPYLFWMERTVEEAFILLVCLKPRVASS LEKKEKEDSFQLLLGSRYNVLKAHCLLPLIRWLTSGLSLLSAQ PHCPQGL
6535	250	964	LIKTFFRDVAIQRDLLPKEKNLETLTLTAFLEIDKAFSSSHARLS ADATLLTSGTTATVALLRDGIELVVASVGDSDRAILCRKGKPMKL TIDHTPERKDEKERIKKCGGFVAWNSLGQPHVNGRLAMTRSIGD LDLKTSQVIAEPETKRIKLHADDSTFLVLTDDGINFMVNSQEIW DFNQCHDPNEAAHAVTEQAIQYGTEDNSTAVVVPFGANGKYKN SEINFSFSRSFASSGRWA
6536	242	1174	SLVKEMTNQYGLFKQEQAHDDAIWSVAWGTNNKENSETVVTGS LDDLVLVWVWRDERLDLQWSLEGHQLGVVSVDISHTLPIAASS LDAHIRLWDLENGKQIKSIDAGPVDAWTLAFSPDSQYLATGTHV GKVINIFGVESGKKEYSLDRGKFLISIAVSPDGKYLASGAIDGI INIFDIATGKLLHTLEGHAMPISRSLTFSPDSQLLVTASDDGYIK IYDVQHANLACTLSGHASWVLNVAFCDDTHFVSSSSDKSVKVDV DVGTRTCVITFFDHQDQVGVKYNNGSKIVSVGDDQEIHIYDC PI
6537	1638	921	NRFNPPPTQGPDPVSLVYRPDVPDPAKDKASFRNYTSGPLLDV FTT'YKLMHHTQTVDFVRSKHAQFGGFSYKMTVMEAVDLDGLV DESDPDVPFNSFHAQTAEGIRKAHPDKDWHLVGLLHDLGKV LALFGEPPQWAVVGDTPVPGCRPQASVVFCDSTFQDNPDLDQERY STELGMYQPHCGLDRLVMSWGHGGEARGGQWGGGGRWCTVGGGG AEAVPAGDTLSPQSTCTR
6538	3345	2412	PYLYDFDLALITCOTAPEEAFIKLDGLAGMLTEQLRRLTKQVQE ARHNRDDEAIKKAVNEYDETMEKYIPVILMAQAKIYWNLENYEMV EKI'FRKSVEFCNDHDVWKLNVAVHVLFMQENKYKEAIGFYEP'IVK KHYDNI'LVNSAIVLANLCVSYIMTSQNEKAELMRKIEKEEBQL SYDDPNRKM'YHLCIVNLVIGTLYCAKGN'YFEGISRVIKSLEPYN KKLGTDTWYYAKRCFLSLENNMSKHMIVIHDSV'IQECVQFLGHC ELYGTNIPAVIEQFLEEERMHVGNKNTVIDESRQLKALIYEIIGW NK
6539	218	339	FLGAASPHPHFSSLAPHDPQPEFTPVQDELEAMELWGPV
6540	3	391	LERLWLLLLRRPEDAMAECPITLGEAVTDHFDRLWAEKFFVYLD E KQHAWLPLTIEIKDRLQLRVLLRRREDVVLGRPMTPTQIGPSLLP IMWQLYPDGRYRSSDSSFWRLVYHIKIDGVEDMLLELLPDD

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6541	1165	536	RTLVQRRILMLLRKPARGRDLRGRGRGTTPRGGRKGLLTPDFFP RFEGGRKPDSDWGNREPGPGHEHFRDTPRDPHPPDHGHSPPASRE RSSSLQGMMDASLPFRKRPWHDGPGTSEHREMEAPGGPSEDRGG KGRGGPGPAQRVPKSGRSSSLDGEHHDGYHRDEPPGGPPGSGTP SRGGRSGSNWGRSGSNMNSGPPRRGASRGGRGR
6542	3	3775	SWPRGRGETGGHPGALRTRTMQKSVRYNEGHALYLAFLARKEGT KRGFLSKKTAEASRWHEKWFALYQNVLFYFEGEQSCRPAQMYLL EGCSCERTPAPPAGAGQGGVRDALDKQYYFTVLFGHEGQKPLE LRCEEEQDQKGEWMEAIHQASYADILIEREVLQMKYIHLVQIVET EKIAANQLRHQLEDQDTEIERLKSEI IALNKTKERMRPYQSNQE DEDPDIKKIKKVQSFMRGWLCKRKWKTIVQDYICSPHAESMRKR NQIVFTMVEAESEYVHQLYILVNGFLRPLRMAASSKKPPISHDD VSSIPLNSETIMFLHEIFHQGLKARIANWPTLILADLFDILLPM LNIYQEFVRNHQYSLQVLNCKQNRDFDKLLKQYEANPACEGRM LETFLTYPMFQIPRYITLHELLAHTPHEHVERKSLBFAKSKLE ELSRVMHDEVSDTENIRKNLAIERMIVEGCDILLDTSQTFIRQG SLIQVPSVERGKLSKVRLLGSLSLKKEGERQCF LTKHFLICTRS SGGKLHLLKTGGVLSLIDCTLIEEPDASDDSKSGSQVFGHLDF KIVVEPPDRAAFTVLLAPSRQEKAAWMSDISQCVDNIRCNGLM TIVFEENSKVTVPHMIKSDARLHKDDTDICFSKTLNSCKVPQIR YASVERLLERLTDLRFLSIDFLNTFLHTYRIFTTAAVVLGKLSL IYKRPPTSIPVRSLELFFATSQNNRGEHLVDGKSPRLCKRFSSP PPLAVSRTSSPVRARKLSLTSPLNSKIGALDLTSSSPTTTTQS PAASPPPHGTGQIPLDLSRGLSSPEQSPGTVEENVNPNRVDLCNK LKRSIQKAVLESAPADRAGVESSPAADTELSPCRSPSTPRHLR YRQPGQTADNAHCSVSPASAFAIATAAACHGSPPGFNNTERTC DKEFIIRRTATNRVLNVLNRHVVSKHAQDFELNNELKMNVLNLL EVLDRDPLLQERKAAANILMALSQDDQDDIHLKLEDI IQMTDC MKAECFESLSAMELAEQITLLDHVIFRSIPYEEFLGQGWKLDK NERTPYIMKTSQHFNDMSNLVASQIMNYADVSSRANAIEKWVAV ADICRCLHNYNGVLEITSALNRSATYRLKKTWAKVSKQTKALMD KLQKTVSSEGRFKNLRETLKNCNPAPVPYLGMYLTDLAFIEGT PNFTEGLVNFSKMRMISHIIRETRQFQQTYSYRIDHQPKVAQYL LDKDLI IDEDTLYELSLKIEPRLEA
6543	1857	950	FVSGCGRAGIGLSWAMAAEARVSRWYFCGLASCGAACCTHPLDL LKVHLQTQQEVKLRMTGMALRVVRTDGILALYSGLSASLCRQMT YSLTRFAIYETVRDRVAKGSGQPLPFHERVLLGSVSGLAGGFVG TPADLVNVRMNDVKLPQGGRRNYAHALDGLYRVAREEGLRRLP SGATMASSRGALVTVGQLSCYDQAKQLVLTGYLSDNIFTHFVA SFIAGGCATFLCQPLDVLTRLMNSKGEYQCVPHCAVETAKLGP LAFYKGLVPAGIRLIPHTVLTFFVLEQLRKNFGIKVPS
6544	630	79	PSPCFIRSRLDGQPMWAGLEAWLSQNFSLHQPSRVVRRASTIS EPSDTPPEPRTLNPSPAGWVQHPHELELMSSFRERFGRNWLQY RSHLEPSGNPLPATPTTSAPSAPPASSQGPDTAPRPSPPQEEAR GPQESQKMSSEVRAEPQEEEEKEGKEEKEGEMAPLEPAHLG EGKQKECP
6545	176	560	PPHSHAALEPAAMTPLLTLILVLMGLPLAQALDCHVCAYNGDN CFNPMRCPAMVAYCMTTRTYTPTRMKVS KSCVPRCFETVYDGY SKHASTTSCCQYDLNCGTGLATPATLALAPI LLATLWGLL
6546	1657	364	HLNLGLDEVAFFVADLGAIVRKHFCLKCLPRVRPFYAVKCNS SPGVKLVLAQLGLGFS CANKAEMELVQHIGIPASKI I CANPCKQ IAQIKYAAKHGIQLLSFDNEMELAKVVKSHPSAKMYLVIATDDSD HSLSCLSLKFGVSLKSCRHLLNAKHHVEVVGVSFPHIGSGCPD PQAYAQSIAADARLVFEMGTGLGHKMHVLDLGGGFGTEGAKVRF EETASVINSALDLYFPEGCGVDIFAELEGYYVTSFTVAVSIIA KKEVLLDQPGREBENGSTSKTIVYHLDGEGVYGFNSVLFDNICP

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			TPILQKKPSTEQPLYSSSLWGPVAVDGCDCVAEGLWLPLQLHVGDWLVFDNMGAYTVGMGSPFWGTQACHITYAMSRVAWEALRRQLMAA EQEDDVEGVCKPLSCGWEITDTLCVGPVFTPASIM
6547	1	541	LHSHYLAPALCSQPGMMRCCRRRCCCRQPPHALLRPLLLPLVLLPPLAAAAAGPNRCDTIYQGFACILRLGDSMGRGGELETICRSWNDFHACASQVLSGCPEEAAAVWESLQQEARQAPRPNNLHTLCGAPVHVRERGTGSETNQETLRATAPALPMAPAPPLAALALAYLLRPLA
6548	2	219	FVSRLSVRDVRFPTFLGCHGADAMHTDDPDYSAAYVPIETDAEDG IKCGGITFTLKGKTEVGELKILSRFQNA
6549	73	1490	ETGRVCEADARPACGSRSSRRRRKEAAPGIPTPSPSSSSPTSSRPAARAFSKAPARLSRPRAREBPDPGRRTYQBEIIQARKHKLIKMCSSVAALKWFLTDRIREDYPQKEILRALKAKCCBEELDFAVVMDEVVLTIEQGNLGLRINGELITAYPQVVVVVVPWPVQSDSDITVLRHLEKMGCRMLNRPQAILNCVKNFWTFQELAGHGVPLDFTSYGGHNFAMKIDEAEVLEFPMVVKNTGRHGRKAVFLARDKHHLLDLSHLIRHEAPYLFQKYVKESHGRDVRVIVVGGRVVGTMLRCSTDGRMQSNCSLGGVGMCSLSEQKQLAIQVSNILGMDVCGIDLLMKDDGSCFCVEANANVGFIADFACNLDVAGIIADYAAASLLPSGRLTRMSLLSVVSTASETSEPELGPPASTAVDNMSASSSSVSDSESTERELLTKLPGGLFNMNQLLANEIKLLVD
6550	2293	922	FRVSRDGAAPDCGIEQMGLAMEHGGSYARAGGSSRGCWYYLRYFFLFVSLIQFLIILGLVLFMVYGNVHVSTESNLQATERRAEGLYSQLGLTASQSNLTKEFNFTTRAKDALMQMWLNARRDLDRINASFRCQGGDRVIYTNQRYMAAIIILSEKQCRDQFKDMNKS CDALLFMLNQKVKLTLEVEIAKEKTICTKDKEVLLNKRVAEEQLVECVKTRTELQHQERQLAKEQLQKVQALCLPLDKDKFEMDLRLNLRWDSIIPRSLDNLGYNLYHPLGSELASIRACDHMPSLMSSKVEELARSLRADIERVARENSDLQKLEAQQLRASQEAQKQKEAQAQAREAKLQAECSRQTQLALEEKAVLRKERDNLAKELEKKREAEQLRMELAIRNSALDTCIKTKSQPMMPVSRPMGPVNPQPIDPASLEBFKRKILESQRPPAGIPVAPSSG
6551	157	748	IQPPDPNMTLAAYKEKMKELPLVSLFCSCFLADPLNKSSYKYEADTVDLNWCVISDMEVIELNKCTSGQSFEVILKPPSFDGVPFENASLPRRRDPSLEEIQKKLEAAEERRKYQEAELLKHLAEKREHEREVIQKAIENNNFIKMAKEKLAQKMESNKENREAHLAAMLERLEKDKHAEVVRKNKELKEEASR
6552	157	748	IQPPDPNMTLAAYKEKMKELPLVSLFCSCFLADPLNKSSYKYEADTVDLNWCVISDMEVIELNKCTSGQSFEVILKPPSFDGVPFENASLPRRRDPSLEEIQKKLEAAEERRKYQEAELLKHLAEKREHEREVIQKAIENNNFIKMAKEKLAQKMESNKENREAHLAAMLERLEKDKHAEVVRKNKELKEEASR
6553	2	1807	FVNSKMAAHLISYGRVNLNVLREAVRRELREFLDKAGSKAIVWD EYLTGPGFGLIAQYSLLKEHEVEKMFITLGNRLPAADVKNIIFFVRRLBLMDIIAENVLSEDRRGPTDFHILFVPRRSLLCEQLKDLGVLGSGFIHREBYSLLDLPFDGDLMSMESEGAFCCEYLEGDQTS LYHAAKGLMTLQALYGTIPQIFGKGECARQVANMMIRMKREFTG SQNSIFPVFDNLLLLDRNVLDLTPLATQLTYEGLIDEIYGIQNS YVKLEPEKFAPKKQGDGGKDLPTAKKLQNSAEELYAEIRDKNFNAVGSVLSKKAKIIISAAFEERHNAKTVEIKQFVSQPLPHMQAARGSLANHTSTAELIKDVTTSDFDKLTVEQEFMSGIDTDKVVNYIEDCIAQKHSLIKVLRLVCLQSVCSNGLKQKVLDDYKREILQTYGYEHILTLEHLEKAGLLKPQTGGRNNYPTIRKTLRLWMDVNEQNPTDISYVYSGYAPLSVRLAQLLSRPGWRSIEEVLRLPGPHFBERQELPTGLQKKRQPGENRVTLIFFLGGVTFAEIALRFLSQL EDGGTEYVIATTKLMNGTSWIEALMEKPF

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6554	119	1244	FEMGSCVSVESGALHVIVVGGGFGGIAAASQLQALNVPFVLVDM KDSFHHNVAALRASVETGFAKKTFFISYSVTFKDNFRQGLVVGID LKNQMVLLQGGELPFSHLILATGSTGPFPGKFNEVSSQQAIIQ AYEDMVRQVQSRFIVVVGGSAGVEMAABIKTEYPEKEVETLIH SQVALADKELLPVSRQEVKEILLRKGVLILLSERVSNLEELPLN EYREYIKVQTDKGTAVTNLVILCTGIKINSAYRKAFESRLAS SGALRVNEHLQVEGHSNVYATGDCADVTPKIMAYLAGLHANIAV ANIVNSVKQRPLOAYKPGALTFLLSMGRNDGVGQISGFYVGRLLM VRLTKSRDLFVSTSWKTMRSPP
6555	1552	498	IHMALLRKINQVLLFLLIVTLCVILYKKVHKGTVPKNDADDESE TPEELEEEIPVVICAAAGRMGATMAAINSISNTDANILFYVVG LRNTLTRIRKWIHESKLRINFKIVEFNPMGLKGIKIRPDSSRPE LLQPLNFVRFYLPPLLHQHEKVIYLDVQGGDIQELYDTTLA LGHAASFDDCDLPSAQDINRLVGLQNTYMGYLDYRKKAIKDLG ISPSTCSFNPGVIVANMTWKHQRIKQLEKWMQKNVEENLYSS SLGGGVATSPMLIVFHGKYSTINPLWHIRHLGWNPDARYSEHFL QEAKLLHWNHGRHKPNDPFSVHNDLWESWFPDPAIGIFKLNHHS
6556	241	1449	ASLCKGCFVTHVLVILPQLSPPTFGFLDIDGVLVRGHRVI PAALKAFRRLLVNSQGLRVVVFVNAGNILLQHSKAQELSAALLG CEVDADQVILSHSPMKLFSEYHEKRMVLSGGQGPVMEQAQGLGFR NVVTVDELRFMAFPLDMVDLERRLKTTPLRNDFPRIEGVLLLG EPVRWETSLQIMDVLLSNGSPGAGLATPPYPHLPVLASNMDDL WMAEAKMPRFGHGTFLLCLETIYQKVTGKELRYEGLMGKPSILT YQYAE DLIRQAERRGWAAPIRKLYAVGDNPMSDVYGANLFHQY LQKATHDGAPELGAGGTROQQPSASQSCISILVCTGVYNPRNPQ STEPVLGGGEPFFHGHRLCFSPGLMEASHVVDVNEAVQLVFR KEGWALE
6557	2598	1534	RMCGRTSCHLPRDLTRACAYQDRRGQQLPEWRDPDKYCPSPYN KSPQNSPVLRLSRHFEDADSSERIAPMRWGLVPSWFKESDP SKLQFNTTNCRSPTVMKRSFKVPLGKGRRCVVLADGFYEWQRC QGTNRQRPYFIYFPOIKTEKSGSIGAADSPENWEKVDNWRLLT MAGIFDCWEPPEGGDVLYSYTIIITVDSCKGLSDIHRMPAILDG EEAVSKWLDPEGVSTQALKLIHPTENTTFHAVSSVNNRNNT PECLAPVDLVVKKELRASCSSQRMQLQWLATKSPKKEDSKTPQKE ESDVPQWSSQFLQKSPLPTRGTACLLQWLKREKEEPPVAKRP YSQ
6558	21	1138	FHGRRRGGRKMELGSCLEGGREAAEEGEPEVKRRLLCVEFAS VASCDAAVAQCFLAENDWEMERALNSYFEPPEESALERRPETI SEPPTYVDLTNEET'DSTTSKISPSEDTQQENGSMFSLITWNID GLDLNNLSERARGVCSYLALYSPDVIFLQEVIPPYYSYLKRRSS NYEIIIGHEEGYFTAIMLKSRVKLKSQETIIFPSTKMMRNLLC VHVNVSNGELCLMTSHLESTRGHAAERNQKMLVKKMQEAPES ATVIFAGDTNLRDREVTROGGLPNNIVDVWEFLGKPKHCQYTDW TQMNSNLGITACKLRFDRIFFRAAAEEGHIIPRSLDLLGLEKL DCGRFPSDHWGLLCNLDIIL
6559	3	364	GPFLSGPLPTRPKKLANQTPIAMDCCASRSCSVPTGPATTICSS DKSCRCGVCLPSTCPHTVWLEPTCCDNCPPPCHPQPCVPTCF LLNSCQPTPGLETNLTTFTQPCCEPCLPRGC
6560	3	1435	TATSGGIWLRKRWCHWRPLPQSCVGTGEGQLQVRDTSRIAGK GVDHTKMSLHGASGGHERSRDRRRSSDRSDSSHERTESQLTPC IRNVTSPTROHHVEREKDHSSSRPSSRPQKASPNGISISSAGNS SRNSSQSSSDGCKTAGEMVVFYENAKEGARNIRTSEVTLIVD NTRFVVDPSIFTAQPNTMLGRMFGSGREHNFTRPNEKGEYEVAB GIGSTVFRALDYKGTGIRCPDGISIPELREACDYLCISFEYS TIKCRDLSALMHELSNDGARRQFEFYLEEMILPLMVASQAQSGER ECHIVVLTDVVDWDEEYPPQMGEYSQIIYSTKLYRFFKYIE



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			NRDVAKSVLKERGLKKIRLGIEGYPTYKEKVKKRPGGRPEVIYN YVQRPFIRMSWEKEEGKSRHVDQFCVKSKSITNLAAAADIPQD QLVVVMHPTPQVDELDILPIHPSPGNSDLDPDAQNPML
6561	3	1086	PGRRFRKESSSSRWFPADCLLGLRGPASSLLSPSPSPWPSHS PCPMAALTDLSFMYRWFKNCNLVGNLSEKYVFTITGCDSGFGNLL AKQLVDRGMQVLAACFTTEGSQKLQRTDSYRLQTTLLDVTKSES IKAAQWVRDKVGEQQLWALVNNAGVGLPSGPNEWLTKDDFVKV INVNVLGLIEVTLHMLPMVKRARGRVVNMSSSGGRVAVIGGGYC VSKFGVBAFSDSIRRELYYFGVKVCIIEPGNYRTAILGKENLES RMRKLWERLPQETRDSYGEDYFRIYTDKLNIMQVAEPVRDVI NSMEHAIVSRSPRIRYNPGLDAKLLYIPLAKLPTPVTDFILSRV LPRPADSV
6562	1	1562	MSTLYDIRAHKAQLLRFFASSDSNKALEQRRTLHTPKLEHLDRV LYEWFLGKRSEGVVPVSGPMLIEKAKDFYEQMQLTEPCVFSGGWL WRFKARHGIIKKLDASSEKQADHQAAEQCAFFRSLAAEHGLSA EQVYNADETGLFWRLCPNPTPEGGA VPGPKQGGDRLTIVLMCANA TGSRLKPLAIGKCSGPRAFKGIHLEPVAYKAQGNWVDKFI FS DWFHHIFVPSVREHFTI GLPEDSKAVLLDSSRAHPQZAE LVS SNVFTIFLPASVASLVQPMEOGIRRD FMRNFINPPVPLQGP HAR YNMND AIFSVACAWNAVPSHVFRRAWRKLWPSVAFAGSSSEEE LEAECFVFKPHNKSFAHILELVKEGSSCPQLRQQAASWGVAC REAEGGRPPAATSPA EVVWSSEKTPKADQDGRGDFGEGEEV AWE QA AVAFDAVLRFAERQPCFSAQEVGQLRALRAVFRSQQVRRRR GALGAVVKVEALQEGPGGCGATAQSP LFCSSSTAGDN
6563	1319	2694	LARPAQPVLLREPEGAGPPVPAGHLVHHLQGGHLRERAHDPDL EA HEHPLPCDQMFWRMGGHLRMVHRANSRGVVWGIGYDHTAWVYT G YGGGCFQGLASSTSNITYTQSDVKCVHIYENQRWNPVTGYTSRG LP TDRYMWSDASGLQECTKAGTKPPSLQWAWVSDWPFVDFSPVGG TDQEGWQYASDPPASYHGSKTMKDFVRRRCWARKCKLVTS GPWL BVPPIALRDVSIIPESPGAEGSGHSIALWAVSDKGDVLCRLGVS ELNPAGSSWLHVGTDOFPASISIGACYQVWAVARDGSAFYRGSV YPSQPAGDCWYHIPSPPRQLKQVSAGQTSVYALDENGNLWYRQ GITPSYPQGSSWEHVSNNVCRVSVGPLDQVWVIANKVQGS HSL S RGTVCHRTGVQPHEPKGHGWDYIGGGWDHISVRANATRAPRSS SQEQEPSAPPEAHGPVCC
6564	1	975	APGSCALWSYCGRWSRAMRGCCQLLGLRSSWPGDLLSARLLSQE KRAAETHFGFETVSEEEKGKVYQVFESVAKKYDVMNDMMSLGI HRVWKDLLLWKMHPLPGTQLLDVAGGTGDI AFRFLNYVQSQHQR KQKRQLRAQQNLSWEEIAKEYQNEEDSLGGSRVVVC DINKEMLK VGKQKALAQGYRAGLAWVLGDAEELPFDDDKFDIYTI AFGIRNV THIDQALQEAHRVLKPGGRFLCLEFSQVNNFLISRLYDLYSFQV IPVLGEVIA GDWKSQYLVESIRRFPSQBEFKDMIEDAGFHKVT YESLTSGIVAIHSGFKL
6565	1464	999	RSAVANGLTKRRMGLKNGRYISLILAVQIAYLVQAVRAAGKCD AVFKGFSDCLLKLGD SMANYPQGLDDKTNIKTVCTYWEDFHSCT VTALTDCEGAKDMWDKLRKESKNLNIQGS LFELCGSGNGAAGS LLPAFPVLLVLSLAALATWLSF
6566	3	1385	KYESAQPGGTQPEPGLGARMATHKALVMCLGLBLFLFP CAWAQG HVP PGCSQGLNPLYYNLCDRSGAWGIVLEAVAGAGIVTT FVLT I ILVASLPFVQDTKKRSLGTQVFLLGTLGLFCLVFACVEKPDF STCASRRFLFGVLFAICFSC LAAHVFALNFLARKNHGPRGVIF TVALLTLLEVIINTEWLIITLVRGSGEGGPGQNSAGWAVASP CAIANMDFVMALIYVMLLLGAF LGAWPALCGRYKRWRKHGVFV LLTATSVAIWVVIWVMTYGNKQHNSPTWDDPTLAI ALAANAW AFVLFYVIVEVSQVTKSSPEQSYQGD MYPTRGVGYETILKEQKG QSMFVENKAFSMDEPVAAKRPVSPSYSGYNGQLLTSVYQPTMAL

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			MHKVPSEGAIDIILPRATANSQVMGSANSTLRAEDMYSAQSHQA ATPPKDGKNSQVFRNPYVWD
6567	125	863	TKRSNLKAYACSIIHIRTMSYVFPVNDSSQTNVPLLQACIDGDFN YSKRLLLESQFDPNIRDSRGRTGLHLAAARGNVDCQLLHKFGAD LLATDYQCNALHLCGHVDTIQPLVSNGLKIDICNHQCATPLVL AKRRGVNKDVIRLLESLEQEVKGFNRGTHSKLETMTQTAESESA MESHSLLNPNLQQGEGVLSSFRRTTWQEFVEDLGFWRVLLLIIFVI ALLSLGIAYVSGVLPFVENQPELVH
6568	3	1183	HASDRLLVLPDNYSHFSQASANLQGPSRTTELPHPTLASISSEPM LEGAELYFNVHDHGYLEGLVRGCKASLLTQDDYINLVQCETLEBDL KIHLOTTDYGNFLANHTNPLTVSKIDTEMKRRLCGEFYFRNHS LEPLSTFTYMTCSYIMDNVILLMNGALQKKSVKEILGKCHPLG RFTMEAVNIAETPSDLFNAILLETPLAPFPQDCMSENALDEIN IELLRNKLYKSYLEAFYKFCCKNHGDVTAEMVCPILEFEADRRAF IITLNSFGTELSKEDRETLYPTFGKLYPEGLRLLAQAEDEFQMK NVADHYGVYKPLFEAVGGSGGKTLEDVFYEREVQMNVLAFNRQF HYGVFYAYVKLKEQEIIRNIVWIAECISQRHRTKINSYIPIL
6569	205	1532	RRRGFQRLGEGRPPTLLCRWRTAGPSHWEKQARAFOGLRPVDP RMSWLFPLTKSASSAAGSPGGITSLQQQKQRLIESLRNHS AEIQKDVEYRLPPTINNLTININILLPPQFPQEKPVISVYPPIR HHLMDKQGVYVTSPLVNNFTMHSDLGKIQLSLDEFWKNPPVLA PTSTAPPYLYSNPSGMSPYASQGFPPFPYPPQEANRSITSLSV ADTVSSSTTSHTTAKPAAPSFVLSNLPLPIPTVDASIPTSONG FGYKMPDVPDAFPELSELVSQSLTDMNEQEEVLEQFLTLPLQK QIITDKDLVKSIEELARKNLLLEPSLEAKRQTVLDKYELLTQM KSTPEKKMQRQHELSSECSASALQARLKVAHEAEESDNIAED FLEGKMEIDDFLSSFMEKRTICHCRRAKEKLQQAIAAMHSQFHA PL
6570	330	1304	ARLRLTLTFLREGFLYVLLSHWVFGAPRPPASDSWKKGLVPSAP PASRKMGSKALPAPIPLHPSLQLTNYSFLOAVNTFPATVDHLQ LYGLSAVQTMHMHNTLGYPNVHEITRSTITEMAAQGLVDARF FPFALPFTTHLFHPKQGAIAHVLPAHKKDRPRDFANLAVAATQ EDPPKMGDLSKLSPLGSPISGLSKLTPDRKPSRGRLPSKTKKE FICKFCGRHFTKSYNLLIHERTHTDERPYTCDICHKAFFRRQDHL RDHRYIHSKEKPFKQCQCGKFCQSRTLAVHKTLMQTSSPTAA SSAAKCSGETVICGGT
6571	169	656	APDMNRKKLQKLTDTLTCKNCKHLFRGFDKNDGCVNVLEWTHGL SLFLRGSLEEKMKYCFEVFDLNGDGFISKEEMFHLKNSLLKQP SEBDFDEGIKDLVEITLTKMDHDHDKLSFADYELAVREETLLL EAFGPCLPDPKSMQMEFAQVFKDPNEFNDM
6572	49	1646	TPERAQPGALLGAAGCCVCGGRWWPRSHERGYFSSAKMGSKRRN LSCSERHQKLVDENYCKKLHVQALKNVNSQIRNQMVQNDNVR QRKQFLRLQLQNEQFELDMEEAIQKAEENKRLKELQLKQEEKLAM ELAKLKHESLKDCKMRQQVRENSIELRELEKKLKAAYMNKERA QIAEKDAIKYEQMKRDAEIAKTMEEHKRIKEENAAEDKRNKA KAQYYLDLEKQLEEQEKKQBAYEQLLKEKLMIDEIVRKIYBED QLEKQKLEKMNAMRRYIEEFQKEQALWRKKREEMEEENRKII EFANMQQREEDRMKVQENEEKRLQLQNALTQKLEEMLRQRED LEQVRQELYQEEQAEIYKSKLKEEAEEKLRKQKEMKQDFEEQMA LKELVLQAAK3EEENFRKTMLAKFAEDDRIELMNAQKQRMKQLE HRAVEKLIERRQQFLADKQRELEEWQLQRRQGFINAIEEEE RLKLLKEHATNLLGYLPKGVFKKEDDIDLGEERFKVYQQRSEI CEEK
6573	767	275	GGGGGESQSFRAGDGTPTATDCLMYLQGPRLMTQGGYDMVQK LFLDFFRRRLSORPTABELEQRNLIKPRNEQEEQEKREIKRRL TRKLSQRPTVEELRERKILIRFSDYVEVADAQDYDRRADKPWTR

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6574	204	1159	<p>LTAAADKVSRRGECWRVGGRTVCWVSLGSPFGSV</p> <p>LESSVPVSVGVFWACGVSWTGAAGLQDGLSDTMARNAEKAMTA LARFRQQLLEEGKVKERRPFLASECTBLPKAEKWRQITIGISK KVAQIQNAGLGEFRIRDINDENKLLREKGHWEVRIKELGCPDY GKVGPKMLDHEGKEVPNGRGYKYFGAAKDLPGVRELFEKEPLPP PRKTRAEMLKADFEYGYLDEDDGVIVPLEQEYKLLRAELVE KWAEREARLARGEKEEEEEEEINIYAVTEESDEEGSQEKG GDDSQQKFIAHVFPVPSQOEIEEALVRRKKMELLQKYASETLQAO SEEARLLGY</p>
6575	117	820	<p>SPALASQSGGITEEKMLEPQENGVIDLPDYEHVEDBTFPPPPPP ASPERQDGEETEEDEESGNGAPVPVPEKRTVKRNPPLDAQRLLI SERGLPALRHVFDKAKFKGKGHEADLKMLIRHMEHWAHLRFPK LQFEDFIDRVEYLGSKKEVQCTCLKRIRLDLPILHEDFVSNNDVR AENNEHDVTSTELDPFLTNLSESEMFASELSISLTBEEQQQRIER NKQLALERRQAKLP</p>
6576	1	1060	<p>PEPQALVGQKRGALRLVARLVLTVSAPAEVRRRVLRLPVLSSWMD RETRALADSHFRGLGVDVPGVGQAPGRVAFVSEPGAFSYADFVR GFLPNLPCVFSSAFTQGWGSRRRWVTPAGRPDFFDHLRLTYGVDV VVPVANGCVQEYNSNPKEHMTLRDYITYWKEYIQAGYSSPRGCL YLKDWHLCDRFPVEDVFTLPVYFSSDNLNEFDALDVEDDYRFVY AGPAGSWSPFHADIFRSFSWVNVCGRKKWLLFPPGQEEALRDR HGNLPYDVTSPALCDTHLHPRNQLAGPPLEITQEAGEMVFPVPSG WHHGVHNLVMCCFSCPLSGAFLQEDGSTTSPLSQPELGWNGVAH G</p>
6577	2271	987	<p>SDRMASDDFDIVIEAMLEAPYKKEEDEQQRKEVKKDYPSTNTSS TSNSGNETSGSSTIGETSNRSRDRDRYRRRNSRSRSPGRQCRHR SRSWDRRHGSRSRSDHRRDRVHYRSPPLATGYRYGHSKSPHF REKSPVREPVDNLSPEERDARTVFCMQLAARIRPRDLEDFSSAV GKVRDVRIISDRNSRSRSGIAYVEFCEIQSVPLAIGLGTGQRLLG VPIIVQASQAEKNRLAAMANNLQKNGGPMRLYVGLSHFNITED MLRGIFPEPFGKIDNIVLMKDSDTGRSKGYGFITFSDSECCARRAL EQLNGFELAGRPMRVGHVTERLDGGTDITFPDGDQELDLGSAGG RFQLMAKLAEAGAGIQLPSTAAAAAQAALQNLGAVPLGA LNPAALTALSPALNLASQCLQLSSLFPTQTM</p>
6578	377	1489	<p>PSSSATMNRAPLKRATILHMAITGASDPSAEAEANGKPFLLRA LQIALVVSLEYVTSISMVFLNKYLLDPSLRLDTPIFVTFYQCL VTTLCCKGLSALAACCPGAVDFPSLRDLRVARSVLPLSVVFIG MITFNNLCLKYGVAFYNVGRSLTTFVNVLLSYLLKQTSFYA LLTCGLIIGGFVLGVDOEGAEGTSLWLGTVFGVLASLCSVSLNAI YTTKVLPAVDGSIWRLTFYNNVNACILFLPLLLLLGELQALRDF AQLGSAHFWGMMTLGGLFGAIGYVTGLQIKFTSPLTHNVSGTA KACAQTVLAVLYEETKSLFWWTSNMMVLGGSSAYTWVRGWEMK KTPEEPSPKDSEKSAMGV</p>
6579	2	711	<p>RPPRVWVPELRELSAAAPRWSHRTAPGIMVIFYFTSSSVNSSAYT ITYMGDKYENEDLIKHWGPEDIWFHVDKLSSAHVYLRHLKHGENI EDIPKEVLMDCAHLVKANSIQGCKMNNVNVVYTPWSNLKKTADM DVGQIGFHRQKDVKIVTVBEKKVNEILNRLEKTPKVERFPDLAEK ECRDREERNEKKAQIQEMKKREKEMKKKREMDLRSYSLSLMKV ENMSSNQDGNDSDEFM</p>
6580	62	1571	<p>LVALKNWPKGTNIPAPQSPVFGAVSGVYMMTKVLGMAPVLGP RPPQEQVGPLMVKVEEKEEGKGLPSLEMFRRFRQFGYHDTBP PREALSQRLVLCCEWLRLPEIHTKEQILELLVLEQFLTLPLQBLQ AWVQEHCPESAEEAVTLLEDLERELDEPGHQVSTPPNEQKPVWE KISSSGTAKESPSSMQPQFLETSHKYESWGPLYIQESGEEQEF QDPRKVRDCRLSTQHEESADEQKGEAEGLKGDIIISVIIANKE ASLERQCVNLENEKGTKPFLQEAGSKKGRESVPTKPTPGERRYI</p>

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			CAECGKAFSSSSNLTKHRRHTGEEKPYVCTKCGKAFSHSSNLTLHYRTHLVDRPYDCKCGKAFGQSSDLLKHQRMHTEBAPYQCKDCGKAFSGKGSLLIRHYRIHTGEEKPYQCNECGKSFQSHAGLSSHQRLHTGEKPYKCKEKGKAFNHSSNFNKHHRHTGEEKPYWCHHCGKTFC SKSNLSKHQRVHTGEGEAP
6581	228	476	RVFLKDLSSSTPMASNTASIAQARKLVEQLKMEANIDRIKVSKA AADLMAYCEAHAKEDPLLTVPASENPFRKKKFFCAIL
6582	1428	718	CFTTKTHCSPVSPVPLVLRKELESLENEGQVHTSSFIN QHPIIFWTLVWYFRRLDLPNLPLGLILTSEHCNEGVQLPLSSLS QDSKLVYIQLLDNINLHQEPREPLYVSWRNFNSEKSSLLSEE QQETSTLVETIRQSIQHNNVLKPINLLSQMKPMKRQRSLYRE ILFSLVSLGRENIDIEAFDNEYGIAYNSLSSEILRLQKIDAP PSASVEWCRKCFGAPLI
6583	487	41	RIFSMTSGRLRWCTWRPATALWSASRLGTSSVHPSRSTSLP LSMMLSPSPNTRGLSPTALFRSPDSEHATSCPRHLWRCRAPL RSPSPGLRLQVLPSPPLHVHTHNSGKEVLGLQVQRSGTGPAC SQAGSGAVQGGNWCIF
6584	189	1750	ELPMAALGPSSQNVTEYVVRVPKNTTKKYNIMAFNAADKVN FAT WNQARLERDLSNKKIYQEEEMPESGAGSEFNKRLREBARRKKY G IVLKBFEPEDQPWLLRVNGKSGRKFKGIKGGVTEINTSYIIF TQ CPDGAFAEPVHNWYNFTPLARHRTLTAEEABEWEWRNKVLNH FSIQQRRRLKDQDQDEDEEEKEKRGRRKASELRHDLDDLEMS SDASDASGEEGGRVPKAKKKAPLAKGGRKKKKKSGDDEAFEDS DDGDFEGQEVDMSDGSSSSQEEPESEKAPQEEGPKGVDEQS DSSESEEEKPPEEDKEEEEEKKAPTQBEKKRRKDSSEESDSSE ESDIDSEASSAFFMAKKKTPPKRERKPSGCSRRGNRPGTSPAB GGSTSTLRAAASKLEQGRVSEMPAAKRLRLDTGPQSLSGKST PQPPSGKTTNSGDVQVTEDAVRRYLTRKPMTKDLKKFKQTKK TGLSSEQTNNVLAQILKRLNPERKMINDKMHFSLKE
6585	3	1678	GPIRNSRIDDFVGGDPRAEASCSVLHSPHMAADSRDPASDQMC HWKEQRAAQKADVLTTGAGNPVGDKLNVTIVGPRGPLLVDVVF TDEMAHFDRRRIPERVVHAKGAGAFGYFEVTHDITKYSKAKVFE HIGKKTPIAVRFSTVAGESGSADTVRDPGRGFAVKFYTEDGNWDL VGNNTPIFFIRDPIIFPSFIHSQKRNPQTHLKDPMVWDFWSLR PESLHQVSLFSDRGIPDGRHMHNGYGSHTFGLVNWANGEAVYCK FHYKTDQGIKNLSVEDAARLSQEDPDYGIRDLFNAIATGKYP SW TFYIQVMTFNQAEFTFPNPFDLTKVWPHKDYPLIPVGLVLNRN PVNYFAVEQIAFDPSNMPPGIEASPDKMLQGRLLFAYPDTHRHR LGPNYLHIFVNCPIYRVRVANYQRDGPMMCQDNQGGAPNYYPNSF GAPEQQPSALEHSIQYSGEVRRFNTANDDNVTQVRAPYVNVLINE EQRKRLCENIAGHLKDAQIFIQKKAVKNFTEVHPDYGSHIQALL DKYNAEKPKNAIHTFVQSGSHLAAREKANL
6586	32	804	PLPEQPAESTSTMPVSGTPAPNKKRKS SKLIMELTGGGQESSGL NLGKKISVPRDVMLEELSLLTNRGSKMFKLRQMRVEKFIYENHP DVFSDSSMDHFQKFLPTVGGQLGTAGQGFSYKSNRGGGQAGG SGSAGQYGSQQHHLGSGSGAGGTGGPAGQAGRGAAGTAGVGE TSGGDQAGGEGKHITVFKTYISPWERAMGVDPQKQMLGIDLLA YGAKAELPKYKSNRTAMPYGCYEKASKRMTFQMPKV
6587	75	1117	RRVPSLGKMEPCWDGEHDIETPYGLLHVIRGSPKGNRPAILTY HDVGLNHKLCFNTFFNFEDMQEITKHFVVCHVDAPGQQVGASQF PQGYCFPSMEQLAAMLPSVVQHFQFKYVIGIGVGAGAYVLAKFA LIIFPDLVEGLVLVNIIDPNGKGVWDWAATKLSGLTSTLPTDVL SH LFSQEEVLNNTLVQSYRQOIGNVVNANLQLFWNMYSNRDL D INRPGTVPNAKTLRCPVMLVVGDNAPAEDEVVECNKLDPTTTT FLKMA DSGGLPQVTQPGKLTFAFKYFLQGMGYMPSASMTRLARS RTASLTASSVDGSRPQACTHSESEGLGQVNHIMEVSC

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6588	137	501	IGLQAQLLELRITNNYQLSDELKNGVELTSLRQKVAYLDKEFSK AOKALS KSKKAQEVVLLSENEMLOAKLHSEQEEDFRLQNSTLMA EFSKLC SQMEQLEQENQQLKEGAAGAGVAQAGP
6589	2	1405	RPWGSAMATFSRQEFFQQLLQGCCLLPATAQQGLDQIWLILAICLA CRLLRGLPSYLLKHAFTVAGGFFSLYHFFQLHMMVVVLLSLLC YLVFLCRHSSHRGVFLSVTILYLLMGEMHMDVTVTWHKMRGA QMIVAMKAVSLGFDLDRGVBGTVPSPVEFMGYLYFVGTIVFGPW ISFHSYLQAVQGRPLSCRWLQKVARSLALALLCLVLSTCVGPVL FPYFIPLNGDRLLRNKKRKARGTMVRWLRAYESAVSFHFSNYFY GFLSEATATLAGAGFTEEKDHLWDLTVSKPLNVELPRSMVEV TSWNLPMYSYWLNNYVFKNALRLGTFSAVLVTYAASALLHGFSPL LAAVLLSLAFITYVEHVLKRLARILSACVLSKRCPPDCSHQHR LGLGVRALNLLFGALAIPLHAYLGLSLFDVDVDDTTEEQGYGMAY TVHKWSELWSASHWVTFGCWIFRYRLIG
6590	2177	656	VRAYEHVLSLLENVFTPMFCHRDEYFRQLLRGAESPTNRSKLNR GSLSLDDFRNTQKRGESFGISRIGSKIKGVFKSTIMEGAMLPNY GVAEGEDDFIEEGIVMEDDSPVEAVSTPNTPRNLAAWKISIPY VDFEEDPSSERKEKKERIPVFCIDVERNDRAVGHPEHWSVYR RYLEFYVLESKLTEFHGAFPDAQLPSKRIIGPKNYEFLKSKREE FQEYLQKLLQHPPELSNSQLLADFLSPNGGETQFLDKILPDVNLG KIIKSVPGKLMKEKGQHLPEPFIMNFINSCESPKPKPSRPELTIL SPTSENNKKLFNDLFKNANRAENTERKQKQNYFMEVMTVEGVY DYLMYVGRVVFQVPDWLHLLMGTRILFKNTLEMYTDYLLQCKL EQLFQEHRLVSLITLLRDAIFCENTEPRSLQDKQKGAQTFEEM MNYIPDLLVKCIGEEETKYESIRLLFDGLQQPVLNKLTYVLLDI VIOELFPELNVQKEVTSVTSWM
6591	2177	656	VRAYEHVLSLLENVFTPMFCHRDEYFRQLLRGAESPTNRSKLNR GSLSLDDFRNTQKRGESFGISRIGSKIKGVFKSTIMEGAMLPNY GVAEGEDDFIEEGIVMEDDSPVEAVSTPNTPRNLAAWKISIPY VDFEEDPSSERKEKKERIPVFCIDVERNDRAVGHPEHWSVYR RYLEFYVLESKLTEFHGAFPDAQLPSKRIIGPKNYEFLKSKREE FQEYLQKLLQHPPELSNSQLLADFLSPNGGETQFLDKILPDVNLG KIIKSVPGKLMKEKGQHLPEPFIMNFINSCESPKPKPSRPELTIL SPTSENNKKLFNDLFKNANRAENTERKQKQNYFMEVMTVEGVY DYLMYVGRVVFQVPDWLHLLMGTRILFKNTLEMYTDYLLQCKL EQLFQEHRLVSLITLLRDAIFCENTEPRSLQDKQKGAQTFEEM MNYIPDLLVKCIGEEETKYESIRLLFDGLQQPVLNKLTYVLLDI VIOELFPELNVQKEVTSVTSWM
6592	3	1861	APEFLGSTISSGSMIDANLKLCEAEORLKAIVAERFAIATKEG DLPQVERFFKIFPLGLHHEGLRKFSEYLCKQVASKAEENLLMV LGTDMSDRRAAVIFADTLTLLFEGIARIVETHQPIVETYYGPR LYTLIKYLVQECDRQVEKVVDKFIKQRDYHQQFRHVQNNLMRNS TTEKIEPRELDPILTEVTLMNARSELYRLFKKRISDDFEVGDG MASEEVQEHQKCLDKLLNNCLLSCTMQBELIGLYVTMEEFMRE TVNKAVALDTYKQGLTSSMVDVVFYIVKKCIGRALSSSIDCL CAMINLATTELESDFRDVLCNKLRMGFATTQDIQRGVTSAVN IMHSSLQQKFPDTKGIESTDEAKMSFVLTLNNEVCSENISTLK KTLBESDCKLFSQGIIGGQAQAKFDSCLSDLAASVSKFRDLQGE GLTELNSTAIKPQVQPPWINSFFSVSHNIBEEEFNDYEANDPWVQ QFILLNLEQQMAEFKASLSPVIYDSLTLGMLTSLVAVELEKVVLS TFNRLGGLQFDKELRSLIAYLTTVTWTIRDKFARLSQMATILN LERVTEILDYWGPNSGPLTWRLTPAEVRQVLALRIDFRSEDIKR LRL
6593	3	1837	EAFSAGSRRRGLALQRGVLGGLGGYCPCCRRRGRLLVLLLVLR RGGEGGGGRGRGDKRRRRQARRRRRPEFAEARGGKMAVDLSVL RQYNIQKKEIVVRGDEVIFGEFSWPKNVKTNVYVVWGTGKEGQPR

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			EYYTLDLSILFLLNNVHLSHPVYVRRRAATENIPVVRPDRKDLLG YLNGEASTSASIDRSAPLEIGLQRSTQVKRAADEVLAEAKKPRI EDEECVRLDKERLAARLEGHKEGIVQTEQIRSLSEAMSVEKIAA IKAKIMAKKRSTIKTDLDDITALKQRSFVDAEVDVTRDIVSRE RVWRTRTITLQSTGKNFSKNIFAILQSVKAREEGRAPEQRPAPN AAPVDPTLRTKQPIPAAYNRYDQERFKGKEETEGFKIDTMGTVH GMTLKSVTGASARKTQTPAAQPVPRPVSQARPPPNQKKGSRTPT I I I I PAATTSITMLNAKDLLQDLKFVPSDEKKKQGCQRENETL IQRRKQMQPGGTATISVTVFYRVVDQPLKLMQDWDVAVFVQ GPANQFKGWPLLDPGSPVDIFAKIKAFHLKYDEVRLDENVQKW DVTVLBSLYHKRHLDRPVFLRVWETLDRYVMVKKSHLRF
6594	1	1096	EFPGRFRGSGQASPLCATCGPALLRAPTRAAMTRSLFKGNFWSA DILSTIGYDNIQHLNNGRKNCKEFEDFLKERAABERYGKDLL NLSRKKPCGQSEINTLKRALEVFKQQVDNVAQCHIQLAQLSREE ARKMEEFREKQKLQRKKTELIMDAIHKQKSLQFKKTMDAKKNYE QKCRDKDEAEQAVSRSANLVNPKQKEKLFVKLATSKTAVEDSDK AYMLHIGTLDKVBREBQSEHIKACBAFEAQECERINFNALWL HVNQLSQQCVTSDEMYEQVRKSLEMCSIQRDI EYFVNQRKTGQI PPAPIMYENFYSSQKNAVPAKGATGPNLARRGPLPIPKSSPDDP NYSLVDDYSLLYQ
6595	57	781	PLGTMSDSDLGEDEGLLSLAGKRRKRRGNLPKESVKILRDWLYLH RYNAYPSEQEKLSSGQTNLSVLQICNWFINARRRLLPDMLRKD GKDPNQFTISRRGGKASDVALPRGSSPSVLAVSVPAPTIVLSLS VCSMPLHSGQGEKPAAPFPRGELES PKPLVTPGSTLTLLTRAEA GSPTGGLFNTPTPTPEQDKEDFSFQLLVEVALQRAAEMELQK QQDPSLPLLTPIPLVSENPO
6596	2	1026	ERLPVRRYHGRRLQGRSRGHMAEGDAGSDQRQNEETBAMAAY GEWCVIDDCAKIFCIRISDDIDDPKWTCLQVMLPNEYPGTAP PIYQLNAPWLKGQERADLSNSLEEIYIQNIGESILYLWVEKIRD VLIQKSQMTBPGPDVKKKTEEDVECEDDLILACQPESSVKALD FDISETRTEVEVEELPPIDHGIPITDRRSTFOAHLAPVVC PKQV KMLSKLYENKKIASATHNIYAYRIYCEDKQTFLODCEDDGETA AGGRLHLHMEILNVKNVMVVSRWYGGILLGPD RFKHINNCARN ILVEKNYTNSPPESSKALGKNKKVRKDKKRNEH
6597	2	1026	ERLPVRRYHGRRLQGRSRGHMAEGDAGSDQRQNEETBAMAAY GEWCVIDDCAKIFCIRISDDIDDPKWTCLQVMLPNEYPGTAP PIYQLNAPWLKGQERADLSNSLEEIYIQNIGESILYLWVEKIRD VLIQKSQMTBPGPDVKKKTEEDVECEDDLILACQPESSVKALD FDISETRTEVEVEELPPIDHGIPITDRRSTFOAHLAPVVC PKQV KMLSKLYENKKIASATHNIYAYRIYCEDKQTFLODCEDDGETA AGGRLHLHMEILNVKNVMVVSRWYGGILLGPD RFKHINNCARN ILVEKNYTNSPPESSKALGKNKKVRKDKKRNEH
6598	1099	419	PRVRWATTMAMSEFWPWQYRFPFPFTLQPNVDTRQKQLAAWCSL VLSFCRLHKQSSMTVMEAQESPLFNNVKLQRLPVESIQIVLEE LRRKGNLEWLDKSKSSFLIMWRRPEBWGKLIYQWVSRSGQNNSV FTLYELTNGEDTEDEEFHGLDEATLLRALQALQQEHAETITVS DGPRRQVLLAGTCLPLLLTSHLSRAFKRRQTQCPPTKGSVTTPD SKGLQS
6599	164	1593	KMAALTTLFKYIDENQDRYIKKLAKWVAIQSVSAWPEKRGIEIR MMEVAAADVQKLGGSVELVDIGKQKLPDGSEIPLPILLGRLGS DPQKKTVCYGHLDVQPAALDEGDWSEPFTLVERDGKLHGRGST DDKGFPVAGWINALEAYQKTGQBI PVNVRFCLGMEESGSEGLDE LIFARKDTFFKDVYVCISDNYWLGKKKPCITYGLRGICYFFIE VECNKLHSGVYGGSVHEAMTDLILLMGSLVDKRNILIPGIN EAVAAVTEEEHKLVDIDFDIEFAKDVGAILLHSHKKDILMH RWRYPSSLHGIETGAFSGSGAKTVIPRKVVGFSSIRLVPNMTPE

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			VVGEQVTSYLTKKFAELRSPNEFKVYMGHGGKPNVSDFSHPHYL AGRRAMKTVFGVEPDLTREGGSIPTVLTFOEATGKNVMLLPVGS ADDGAHSQNEKLNRYNIEGTKMLAAYLYEVSQDKD
6600	2	934	PGRLFRVAAMESAGLEQLLRELLBDTERIRRATEQLQIVLRAP AALSALCDLLASAADPQIRQFAAVLTRRLNTRWRRLAAEQRES LKSILITLALQRETEHCVSLSLAQLSATIFRKEGLEAWPQLQLL QISTHISPHISPEREMGLLLSVVTSRPEAFQPHHRELRLRLNET LGEVGSFGLLFYSRLTTLTMAPYLS TEDVPLARMLVPKLI MANQ TLIPIDEAKACEALEALDELESEVPVITPYLSEVLTFCLEVAR NVALGNAIRIRILCCLTFLVKVKS KALLKNRLLATLAHPFPHC GC
6601	529	1420	BRAAARAPPAVLRDRRAATAPCAGEMTLHGFLAQRVFLNHT KITTWQDPRKAMNQLNHNMLHPAVSSTPVPQRSMASVQPNLVM NHQHQQCMAPSTLSQQNHPTQNPAGLMSMPNALTTQQQQQKL RLQRIQMERERIRMRQEEELMRQEAALCRQLPMEAETLAPVQAAV NPPTMTPTDMRSITNNSDPFLNGGPHYHSREQSTDSGLGLGCYSV PTTPEDFLSNVDEMDTGENAGQTPMNINPQTRFPDFDLCLPGT NVDLGTLESEDLIPLFNDVESALNKSEPFELTWL
6602	127	617	LLDFPALPKFVLAQSPKAGKPSMTSMTQSLREVIKAMTKARNF ERVLGKITLVSAAAPGKVICEMKVEEHTNAIGTLHGGLTATLVD NISTMALLCTERGAPGVS VDMNITYMSPAKLGEDIVITAHVLKQ GKTLAFTSVDLTNKATGKLI AQGRHTKHLGN
6603	79	660	PVGPSSLAARTGLGHLPLFLHRLASSRGDMDLLQFLAFLFVLLL SGMGATGTLTSLDPSLEIYKKMFEVKRREQLLAKNLQAQLNDI HQQYKILDVMLKGLFKVLEDSRTVLTAAADVLPDGPFPQDEKLKD AFSHVVENTAFFGDVVLRFPRIVHYYPDHNSNWNLLIRWGISFC NQTG VFNQGPHSPLSLM
6604	3	688	TSTAQRQGGGRMSFRGGGRGGFNRGGGGGCFNRGGSSNFRGGG GGGGGGRNFRGGGRGGFGRGGGRGGFNGKQDQGPPEVVLLEBFL HPCEDDIVCKCTTDENKVPYFNAPVYLENKEQIGKVDIEIFGQLR DFYFSVKLS ENMKASSFKKLQKFYIDPYKILPLQRFLEPRPGEK GPPRGGGRGCRGGGRGGGRGGGRGGGRGGGRGGGGGGGFRGGRG GGFRGRGH
6605	7	848	SGSRRGAMRAAGVGLVDCHCHLSAPDFDRDLDDVLEKAKKANVV ALVAVABHSGEFEKIMQLSERVNGFVLPCLGHPVQGLPPEDQR SVTLKDLDDVALPIIENYKDRLLAIGEVGLDFSPRFAGTGEOKEE QRQVLIRIQIQLAKRLNLPVNVHSRSAGRPTINLLQEQGAELVLL HAFDGRPSVAMEGVRAGYFFSIPPSIIRSGQQKLKVLPLTSIC LETDSPALGPEKQVRNEPWNISISABYIAQVKGISVEEVIEVTT QNALKLFPKLRHLLQK
6606	2	1682	FVEIRPRAEVANLSAHSASPIQDAVLKRLSLLEDIVYRQLNGLS KSLGLIEGYGGRGKGLPATLSPAEEKAKGPHEKYGYNSYLSE KISLDRSIPDYRPTKCKELKYSKDLQISIIIFIVNEALSILR SVHSAVNHTPTHLLKEIILVDDNSDEELKVPLEEVVHKRYPG VKVVRNQKREGLIRARIEGWKVATGQVTGFFDAHVEFTAGWAEP VLSRIQENRKRVLPSIDNIKQDNFEVQRYENSAHGYSWELWCM YISFPKDWWDAGDPSLPIRTAPAMIGCSFVVRNKKFFGEIGLLDPG MDVYGGENIELGKIVWLCCGSMEVLPCSRVAHIERKKKPYNSNI GFYTKRNALRVAEVMDDYKSHVYIAWNLPLENPGIDIGDVSR RALRKSLKCKNFQWYLDHVYP EMRRYNTVAYGELRNNAKADVC LDQGFLENHTAILYPCHGWGPQLARYTKEGFLH GALGTTLLP DTRCLVDNSKSRPLQLLDCDKVSSLYKRWNFIQNGAIMNKG TG RCLEVENRGLAGIDLILRSC TQQRWTKNSIK
6607	137	986	VPACAGLKKEARSLASPPRLNLTKLQASCRALFSPPPIQSRQTT GISFQGRGGAGPGVPTRTQVPAAMGAVMGTFSSLQTKQRPSKD KIEDELEMTMVCHRPEGLEQLEAQTNFTKRELQVLYRGFKNECP

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			SGVVNEDTFKQIYAQFFPHGDASTYAHYLFNAFDTTQTGSVKFE DFVTALSILLRGTVHEKLRWTFNLYDINKDGYINQEEEMMDIVKA IYDMMGKYTYPVLKEDTPRQHVDVFFQKMDKNKDGIVTLDEFLE SCQEDDNIMRSLQLFQNVN
6608	224	1140	RPCFSSPTGLCPRLSYPMILLQHAVLPPPKQSPSPSPMSVATRS TGTLQLPPQKPFQGEASLPLAGEEELSCKGGEQDCALEELCKPLY CKLCNVTLNSAQQAQAHYOGKNHGKLRNYYAANSCTPPPARMSN VVEPAATPVVPVPPQMGSKFGGGRVILATENDYCKLCDASFSSP AVAQAHYQGNHAKRLRLAEASQNSFSSESELGQRRARKEGNEF KMPNRRNMYTVQNNSGPYFNPRSRQRIIPDLAMCVTPSGQPYC SMCNVAGABEMEFRQHLESKQHKSKVSEQRYNEMENLGYV
6609	1	443	FRLCRRFRVAGGRLAGAGLRESRVPAPEQRLSALTLLSWSAVT PAAEPGNFQLSPAEPGRPLASPVRAAPRAPCAAEMSELNKTTS PATNQAAGQBEKKGKAGNVKKAEEEEIEDIDLTAPETEKAALAIQ GKFRFRFQKRKKDPSS
6610	319	881	GRKSLCNLHIFIRFPLTYPDMMGMCTAKKCGIRFQPPAII LI YESEIKGKIRQRIIMPVRNFSKFSDDCTRAAEQLKNNPRHKSYLEQ VSLRQLEKLFSLRGYLSGQSLAETMEQIQRETTIDPEEDLNKL DDKBLAKRKSIMDELFEKNQKKKDDPNFVYDIEVEFPQDDQLQS CGWDTESADEF
6611	978	212	PGCSGAGSRVWWLPAIRHLAMGSTESSEGRVVSFGVDEEERVV LQGVRLSENVNRMKEPSSPPPAFTSSTFGLQDGNLRAPHKEST LPRSGSSGGQQPSGMKEGVKRYEQEHAAIQDKLFQVAKRREAA TKHSKASLPTGEGSISHEEQKSVRLARELESREABLRDRDTPYK EQLEBRIERKNAEMYKLSSEQFHEAASKMESTIKPRRVEFPVCSGL QAQILHCYDRDPHEVLLCSDLVKAYQRCVSAAHKG
6612	1724	992	VSTHASALSRTOGQPRQPRAAAGAGTAGGGGSGGAEGSKM STEAQRVDDSPSTSGGSSDGDQRESVQQEPEREQVQPKKKKGKI SSKTAAKLSTSAKRIQKBLAETLDPPNCSAGPKGDNIEYWR TILGPPGSVYEGGVFFLDITFSPDYFPKPKVTFTRTRIYHCNIN SQGVICLDILKDNWSPALTISKVLLSICSLTDCNPADPLVGS IATQVMTNRAEHDRMARQWTKRYAT
6613	130	748	ELBLSNMPEQSNDRVAVFGAGGVGKSSSLVLRVFGTFRESYI PTVEDTYRQVISCDKSICTLTQITDTTGSHQFPAMQRLSISKGHA FILVYSITSRQSLLEELKPIYEQICBIKGDVESIPIMLVGNKCD SPSREVSSEAEALARTWKCAFMEASAKLNHNKELFQELLNLE KRRTVSLQIDGKKSQQRKKEKLGKCVIM
6614	3	1191	SSAAEAMRVLVRRWCWGPPLAHGARRGRPSQWRALARLGWEDCR DSRVREKPPWRVLFPGTDQFAREALRALHAARENKEEELIDKLE VVTMPSPSPKGLPVKQYAVQSQLPVYEWPDVGSGEYDVGVVASF GRLNEALILKFPYGIILNVHPSCLPRWRGPAPVIHTVLHGDTVT GVTIMQIRPKRFDVGPIIKQETVPVPPKSTAKELEAVLSRLGAN MLISVLKNLPESLSNGRQQPMEGATYAPKISAGTSCIKWEEQTS EQIFRLYRAIGNIIPLOTLWMANTIKLLDLVENVSSVLADPKLT GQALIPGSVITYHKQSQILLVYCKDGNIGVRSVMLKKSLLTATDFY NGYLHPWYQKNSQAQPSQCRFQTLRLPTKKKQKKTVMQQCIE
6615	832	35	GRVGAGASAMSELPDGFRAFLREHPSRLQTDARKVRCILTGHE LPCLPELQVYTRGKKYQRLVRASPAFDYAEFEPHIVPSTKNPH QLFCKLTLRHINKCPEHVLRHQTGRRYQALCKYEECQKQVEY VPACLVHRRRRREDQMDGDGPRPREAFWEPTSSDEGGAASDDSM TDLYPPELFTRKDLGSTEDGCTDDFLTDEKDEKAKPPREKATD EGRRETTVYRGLVQKRGKQQLGSLKKKFKSHHRKPKSFSSCKQS G
6616	347	1886	LLPPCQGARPLSSPPHASEDNLFWFNCILCAFPHPSPQPLQYP VWPLLLVITQIPAPRHLRNRPFSSFRGGDLSFSGSLSTPSICRS



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			PAWVKMAPWPPKGLVPAVLWGLSLFTLNLPGPIWLQPSPPQSSP PPQPHPCHTCRGLVDSFNKGLERTIRDNFGGNTAWEENLSKY KDSETRLVEVLGVCSKSDFECHRLLELSEELVESWWFHKQQA PDLFQWLCSDSLKLCCPAGTFGPSCLPCPGGTERPCGGYGGCEG EGTRGGSGHCDQAGYGGACGQCGLGYFEABRNASHLVCSACF GPCARCSGPEESNCLQCKGWALHHLKCVDIDECGTGEGANGAD QFCVNTGSEYECRDCAKACIGCMGAGPGRCKKCSPGYQQVGSKC LDVDECETEVCPCGENKQCENEGGYRICAEGYKQMEGICVKEQ IPESAGFFSEMTEDELVVLQQMFFGIIICALATLAAKGDVFTA IFIGAVAAMTGYWLSERSDRVLEGFIKGR
6617	118	673	VWMAWQVSLLELEBDRQLQCPICLEVFKBSIMLQCGHSYCKGCLVS LSYHLDTKVRCPMCWQAVDGSSSLNPNVSLAWVIEALRLPGDEP KVCVHHRNPLSLFCEKQELICGLGGLGSHQHHPVTPISTVCS RMKEELAAALFSELKQEQKKVDELIKLVKNRTRIDGSAPSLCPC LGPATFTFL
6618	548	136	DGKVARAPNSPAFQNDIYPLVSAPRATTAESPWSKVLQNTQCR NVPKMTSERSRIPCLSAAAAEGTGKKQQEGRAMATLDRKVSPE AFLGKPWSSWIDAAKLHCSNDVLEEGKEGKSEVMRLNKEA WKYGT
6619	246	842	PASSEVLTAAMFLLNLCIVAVSQNMIGKNGDLPRPPLRNEFR YQRMTTTSSVEGKQNLVIMGRKTWFSIPEKNRPLKDRINLVLS RELKEPPQGAHFLARSLDDALKLTERPELANKVDMIWIVGSSV YKEAMNHLGHLKLFVTRIMQDFESDTFFSEIDLEKYKLLPEYPG ILSDVQEGKHICYKFEVCEKDD
6620	3	1879	NSRVDDFVARARMAAENEASQESALGAYSPVDYMSITSFPRLEP DEPAPAAPLRGRKDEDAFLGDPDTPDPSFLKSARLQRLPSSSSE MGSQDGSPLRETRKDPFSAAAABCSQRQDGLTVIVTACLTATG VTVALVMQIYFGDPQIPQOGAVVTDAAARCTSLGIEVLSSKQSSV DAAVAAALCLGTIVAPHSSGLGGGVMLVHDIRRNESHIDRES APGALRETELQRSWETKPGLLVGVPGMVKGLHEAHQLYGRLPWS QVLAFAAVAQDGFNVTHDLARALAEQLPPNMSEFRFETFLPSG RPPLPGSLHLRDLAEVLDVLGTSGPAAFYAGCNLTLEMVAEAO IAGGVITEEDTSNYSALVEKPVCGVYRGHLVLSPPPHTGPALI SALNILEGFNLTSLSVREQALHWAETLKIATLALASRLGDPVYD STITESMDMLSKVEAYLRGHINDSQAAPALLPVYELDGAPT AAQVLIMGPDDEFIVAMVSSLNQPFGSGLITPSGILLNSQMLDFS WPNRTANHSAPSLNSVQPGKRPLSFLLPVTVVRPAEGLCGTYLA LGANGAARGLSGLTQVRFTFWLAFFSREPSCLDCRCLSYLWLV SIPHAANMG
6621	1	662	VQGITSYQQLQALRKEKSRDAARSRRKENFEFYELAKLLPLP AATTSQLDKASIIRLTISYLNKRDFAHQGDPPWNLRMEGPPNP SVKVIGAQRRRSFSALAEVFEAHLGSHILQSLDGYVFALNQEG KFLYISETVSTYLGSLQVELTGSSVFDYVHPGDHVEAEQLGMK LPPGRGLLSQGTAEAGASSSSSSQSETPEPVVCFPPASDQFLL
6622	2	319	GRASGAQEBETEAGGPERARAMEANMPKRKEPGRSLRIKVISGMN AEVGKSCI IKRYCEKRFVSKYLATICIDYGVTKVHVRDREIKVN TFDMAGHPFFYEVKPPF
6623	1886	189	KALFEKVKKFRHLHVEEGDILYAMYVRQTVLKVIFLIIAYNSA LVSKVQFTVDCNVDIQDMTGYNFSCNHTMAHLFSKLSFCYLCF VSIYGLTCLYTLWLFYRSLREYSFEYVRQETGPDIPDVKNDF AFMLHMDQYDPLYSKRFVFLSEVSENKLLQNLNNEWTPDKL RQKLQTNAHNRLELPLIMLSGLPDTVFETELQSLKLEIKVM IPATIAQLDNLQELSLHQCSVKIHSAAFLKENLKVLSVKFDD MRELPPWMYGLRNLELYLVGSLSHDISRNVLTSLRDLKSLKI LSIKSNVSKIPQAVVDVSSHQKMCIHNDGKLVMLNLLKMTN LTELELVHCDLERIPHAVFSLLSLQELDLKENNLSIEEIVSFQ

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			HLRKLTVLKLWNSITYIPEHKKLTSLESLSFSSHNKIEVLPSH LFLCNKIRYLDLSYNDIRFIPPEIGVLQSLQYFSITCNKVESLP DELYFCKKLKTLKIGKNSLSVLSPKIGNLLFLSYLDGKGNHFEI LPPELGDCLAKRAGLVVEDALFETLPSDVREQMTE
6624	218	1786	GSRRGGSRIIPAVSTHVAPGRSVLRPFASGALRLRLSVKALGGC RGRPSGLAHLQSQTSHWRKRSGRACLDGPFGEILRSFIMKCTA RENLRVTTVLFMARAI PAMVVPNATLLEKLLKYMDEDEGEWWIA KQRGKRAITDNDMQSILDLHNKLRQVYPTASNMEYMTWVLELE RSAESWAESCLWEHGPAALLPSIGQNLGAHWGRYRPTTFHVQSW YDEVKDFSYPYEHECNPYCPFRCSGPVCTHYTQVVWATSNRIGC AINLCHNMNIWQCIWPKAVYLVNVCYSEKGNWGHAPYKHGRPCS ACPPSPFGGCGRENLCYKEGSDRYPPREBETNEIERQSQSVHDT HVTRSDSSRNEVISAAQMSQIVSCVRLRDQCKGTTCNRYEC PAGCLDSKAKVIGSVHEYEMQSSICRAAIHYGI IDNDGGWVDITR QGRKHYFIKSNRNGIQTIGKYQSANSFTVSKVTVAQTCTTVE QLCPFHKPASHCPRVYCPKLYASKSTLCSCNWNSSLF
6625	1124	543	PGRGGGGSLLSTKALGRSRGLGMHPGPSSGGTEGGVPTALRPP GPLVPSTSDNLLKNIELFDKLALRFHGRLLFLKDVLDGEICCW SFYGGQRKIAEVCCTSIYVATEKKQTKVEFPPEARIFBETNLNLT YETPRGPDPALEATGGAAGAGGAGRGEDENREHVRRIHVRR HITHDERPHGQQIVFKD
6626	3	1498	SAVEFVYTDRFHLILGISVEFLCSLRSDATMESITACLHALQAL LDVPWPRSKIGSDQDSGIELNLVLRVILTRESPSIQLASLEV RQIICAAQEHVKEKRRSAEVDGAAEKETLPEFGEKDTGGLVP GKSLVFATLELCVCLVRLPELNPCLTGSPPGVKATKPKQILLED GSRLVSAALVILSELPAVCSPEGSISILPTILYLTIGVLRETAV KLPGGQLSSTVAASLQALKGILSSPMARAEKSRATWTDLLRSAL TTILDWDVDETHQELDEVSLTATITVILSTSPVTTTIPCLQ KRCIDKFATLEIKDPVVQIKTYQLLHSIFQYPNPAVSYPIYS LASCIMEKLQEBIDKRKPENTAELEI FQEGIKVLETLVTVAEEHH RAQLVACLLPILISFLLDENSLGSATSIMRNLDHDFALQNLQIG PQYSSVFKSLVASSPALKARLEAAIKGNQESVVKVIPTSKYTKS PGKNSSIQLKTSFL
6627	1	697	GIPHLSSRDMTGTPCAVATRDCEAPERSPPCSPSYDLTGKVMLL GDTGVGKTCFLIQPKDGAFLSGTFIATVGDIFRNKVVTVDGVRV KLQIWDTAGQERFRSVTHAYYRDAQALLLYDITNKSSFDNIRA WLTEIHEYAQRDVVIMLLGNKADMSERVIRSEGETLAREYGV PFLETSKTMNVELAFLAIAKELKYRAGHQADEPSFQIRDYVE SQKKRSSCCSFM
6628	1	1861	QCAEFGGGGGGGGGGGGGGGGGGRGAGGEENKENERPSAGSKAN KEFGDSLSEILQI IKESQQQHGLRHGDFQRYRGYCSRRQRRLR KTLNFKMGNRHKFTGKKVTEELLTDNRYLLLVLMADAERAWSYAM QLKQEAANTEPRKRFHLLSRLRKAVKHAEELERLCESNRVDAKTK LEAQAYTAYLSGMLRFEHQEWKAAIEAFNKCKTIYEKLASAFTE EQAVLYNQRVVEISPNIRYCAYNIGDQSAINELMQMRLRSGGTE GLLAEKLEALITQTRAKQAATMSEVWGRGRTVPVKIDKVRIFLL GLADNEAAIVQAESEETKERLFESMLSECRDAIQVVREELKPDQ KORDYILEGEPKVSNLQYLHSYLYTIKLSIAIKRNENMAKGLQ RALLQQQPEDDSKRSRPPQDLIRLYDI ILQNLVELLQLPGLLED KAFQKEIGLKTLLVFKAYRCFFIAQSYVLVKKWSEALVLYDRVLK YANEVNSDAGAFKNSLKDLPDVQELITQVRSEKCSLQAAAILDA NDAHQTETSSSQVKDNKPLVERFETFCLDPSLVTKQANLVHFPF GFQPIPCKPLFFFDLALNHVAFPPLEDKLEQKTKSGLTGYIKGIF GFRS
6629	5653	4549	GATPLGSVGGRTGKMDAATLTYYDTLRFABEFDPFETSEPVWILG RKYSIFTEKDEILSDVASRLWFTYRKNFPAIGGTGPTSDTGWGC

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			MLRCGQMIFAQALVCRHLGRDWRWTQKRKQPDSEYFVLNAFIDR KDSYYSIHQIAQMGVGEKSGIQWYGPNTVAQVLKKLAVFDTS SLAVHIAMDNTVVMEEIRRLCRTSVPCAGATAPADSDRHCNGF PAGAEVTNRPSWRPLVLLIPLRLGLTDINEAYVETLKHCFMMP QSLGVIGGKPNSEAHYFIGYVGEELIYLDPHTTQPAVEPTDGCFI PDESHCQHPPCRMSIAELDPSIAVVRGGHLSAQAFGAECCLGM TRKTFGFLRFFFSMLG
6630	2	423	LVQCGGIRRRSAWGAMPGRHVSRVRLYKRVLQLHRVLPDDLKS LGDQYVKDEFRRHKTGVSDEAQRFLQEWVYATALLQANENRQ NSTGKACFGTFLPEEKLNDFRDEQIGQLQELMQEATKPNRQFSI SESMKPKF
6631	2	423	LVQCGGIRRRSAWGAMPGRHVSRVRLYKRVLQLHRVLPDDLKS LGDQYVKDEFRRHKTGVSDEAQRFLQEWVYATALLQANENRQ NSTGKACFGTFLPEEKLNDFRDEQIGQLQELMQEATKPNRQFSI SESMKPKF
6632	1273	588	WNSRGRTQRGAAPLAPAAAMKAVQVRVTRASVTVGGEQISAIGR GICVLLGISLEDTQKELEHMRKILNLRVFEDESCKHWSKSVMD KQYEILCVSQFTLQCVLKGKXPDFHLAMPTEQAEGFYNSFLQQL RKTYPPELIKDGKFGAYMQVHIQNDGCVTIELESAPGTATSDP KQLSKLEKQQQRKEKTRAKGPSSESSKERNTPRKEDRSASSGAEG DVSSEREP
6633	1145	617	ATGRHEGVPTLEGIIQQLVNGIITPATIPSLGPWGLVLSNPMFY AWGANGLDAIITQLLNQFENTGPPPADKEKIQALPTVPVTEHV GSGLECPVCKDDYALGERVRLPCNHLFHDGCIVPWLEQHDSCP VCRKSLTGQNTATNPPGLTGVSFSSSSSSSSSSSPSNENATSNS
6634	1	1134	CGGTPRKGSCPRRLPMARLDRCLPRLMLTLRLSLFLVSLVYCY GLCASTHLLKLLWSLKGKPAQTFRPAREHPPACLSLDPSTGTHC YVRIKDSGLRFHYVAAGBRGKPLMLLLHGFPEFWYSWRYLREF KSEYRVVALLDLRGYGETDAPIHRQNYKLDCLITDIKDILDSLGY SKCVLIGHDWGGMIAWLAICYPEMVMKLVINFPHPNVFTYI LRHPAQLLKSSYYFFQIPWFPEFMFSINDFKVLKHLFTSHSTG IGRKGCQLTTEDLEAYIYVFSQPGALSGPINHYRNIFSCPLKH HMTTPTLLWGENDAFMEVEMAETRFYVKNYFRLTILSEASH WLQDQDPDIVNKLITWTLKEETRKKD
6635	1420	470	EMRAGQQLASMLRWTRAWRLPREGLGPHGSPFARVPVAPSSSSG GRGGAEPRLPLSYRLLDGEAALPAVFLHGLFGSKTNFNNSIAK ILAQTGRRVLTVDARNHGDSPHSPDMSYEIMSDQLDQLLPQLG LVPCVVVGHSMSGKTAALLALQRPVELVERLIAVDISPVESTGVS HFATYVAAMRAINIADELPRSRARKLADEQLSSVIQDMAVRQHL LTNLVEVDGRFVVRVNLDAITQHLDKILAFPPQRQESYLGPTLFL LGGNSQFVHPSSHPEIMRLFPRAQMOTVPNAGHWIHADRPQDFI AAIRGFLV
6636	1514	1801	SFCMFSHKQDSHFQAVPVOEKKRLRRAPWRAFAQPRQLKHPAE QPIVRQCLQRPLCGVLGPVQQQLPPLSGPVLSPHSDPGWCRVD DGGDGVF
6637	2	1501	CSSSPCFHDGTCVLDKAGSYKCACLAGYTGQRCENLLEAGKSKI KASEDSLVLERNCSDEPGGPVNGYQKITGGPGLINGRHAKIGT VVSFFCNSNSYVLSGNEKRTCCQNGEWSGKQPICIKACREPKISD LVRRRVLPQVQSRETPLHQLYSAAFSKQKLQSAPTKKPALPFG DLPMGYQHLHTQLQYECISPFYRRLGSSRRRTCLRTGKWSGRAPS CIPICGKIENITAPKTQGLRWQAAIYRRYTSGVHDGSLHKGAW FLVCSGALVNERTVVAAHCVTDLGKVTMIKTADLVVLGKFYR DDDRDEKTIQSLQISAITLHPNYDPIILLDADIAILKLLDKARIS TRVQFICLAASRDLSTSFQESHITVAGWNLADVRSFGFKNDTL RSGVVSVVDSLLCEEQEDHGIPVSVTDNMFCASWEPTAPSDIC TAETCGIAAVSFPCRASPEPRWHLMLGLVSWSYDKTCSHRLSTAF

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			TKVLFPKDWIERNMK
6638	1391	224	GGIPQAGGKMAAPWWRALCECRRWRGFSTSAVLGRRTPLGPM PNSDIDLSNLERLEKYRSFDRYRRRAEQEAQAPHWRTYREYFG EKTDPKKEKIDIGLPPPKVSRVQQQLERKQAIQELRANVEEERAA RLRTASVPLDAVRAEWERTCGPYHKQRLAEYYGLYRDLFHGATF VPRVPLHVAYAVGEDDLMPVYCGNEVTPTEAAQAPEVTYEAEEG SLWTLTLLTSLDGHLLLEPDAEYLHWLLTNPGRVAVGQVTCPYL PPFPARGSGIHRALFLFKQDQPIDFSEDARPSPCYQLAQRTR TFDFYKHKQETMTAPGLSFFQCRWDDSVTYIFHQLLDMREPVE FVRPPPYHPKQKRFPHRQPLRYLDYRDSHEPTYGIY
6639	2046	1268	IGCFIMDGGDDGNLITKKRFVSEALDERKRRQEEWEKVRKPE DPEECPEEVYDPRSLYERLQEQKDRKQEQYEEQFKFNVMVRGLD EDETNFLDEVSRQQELIEKQRREBELKELKEYRNNLKKVGISQE NKKEVEKKLTVKPIETKNKFSQAKLLAGAVKHKSSESNGSVKRL KPDPEPDDKNQEPSSCKSLGNTSLSGPSIHCPSAAVCIGILPGL GAYSGSSDSESSDSEGTINATGKIVSSIFRTNTFLEAP
6640	117	1043	VLEPPDVSMASEDRSLRVLVGKTGSGKSATANTILGEITFDS RIAAQAVTKNCQKASREWQGRDLLVVDTPGLFDTKESLDTTCKE ISRCIISSCPGPHAVLVLLGRYTEEQKTVALIKAVFGKSAM KHMVILFTRKEELEGQS FHDFIADADVGLKSIVKECGNRCCAFS NSKKTSKAEKESQVQELVELIEKVMQCNAGAYFSDDIYKDTEER LKQREEVLRKIYTDQLNEEIKLVEEDKHKSEEKKEIKLLKLK YDEKIKNIREEAEARNIFKDVFNRIWKMLSEIWHRFLSKCKFYSS
6641	1	894	SAAVGRRSEVRGCAPRRLRRSARRMDPVPCTDSAPLAGLAWSS ASAPPRGFSALISCTVEGAPASFGKSAQKSGYPLCLSLGSLSE NPQENVVADIQIVVDKSLPLPLGFSVPCDPMDSKASVSKKRMVCV KLLPLGATDTAVFDVRLSGTKTVPGYLRIGDMGGAIFWCKKAK APRPVPKPRGLSRDMQGLSLDAASQPSKGGLLERTASRLGSRAS TLRRNDISIYBASSLYGISAMDGVPTLHPRFEGKSCSPLAFSAF GDLTIKSLADIEEYNYGFVVEKTAARLPFSVS
6642	22	1296	PLEERMMTRKMDPNDQAQRDIIFELRRIAFDAESDPSNAPGSGTE KRKAMYTKDYKMLGFTNHINPAMDFQTTPPGMLALDNMLYLAKV HQDTYIRIVLENSREDKHECPFGSAIELTKMLCEILQVGEPL NEGRNDYIIPMFTHDRAFEELFGICIQLLNKTWKEMRATAEDFN KVMQVVRQITRALPSKPNSLDQPKSKLRLSYSEILRLRQSER MSQDDFQSPPIVELREKIQPEILELQKQRLNRLCEGSSFRKIG NRRRQERFWYCRALNHNKVLHYGDLDDNPQGEVTFESLQEKIPV ADIKAIVTGKDCPHMKEKSALKQNKVEVLELAFSILYDPDETLLN IAPNKYCYCIWIDGLSALLGKDMSELTKSDLDTLSSMENKLRL LDLENIQIPEAPPPIPKEPSSYDFVYHYG
6643	3049	2265	SLHAPAEGRTRGRLEAKPKMLTRKIKLWDINAHITCRLCSGYLI DATTVTECLHTFCRSCLVKYLEENNTCPTCRIVIHQSHPLQYIG HDIRTMQDIVYKLVPLQEAEMRKQREFYHKLGMVEVPGDIKGETC SAKQHLDSHRNGETKADDSNKEAAEEKPEDNDYHRSDEQVSI CLECNSSKLRGLKRWIRCSAQATVLHLKKFIAKKNLSSFNEL DILCNEEILGKDHTLKFVVVTRWRFKAPLLHYRPMKMDLL
6644	1489	290	FRPLATEPRGSSPVQLVSSVTMSVTLPLFLNLGGEMLYILDQR LRAQNI PGDKARKVLNDIISTMFNRKFMELFKPQELYSKKALR TVYERLAHASIMKLNQASNDKLYDLMTMAFKYQVLLCPRPKDV LVTFNHLDTIKGFIRDSPTILQQVDETQLRLTEIYGGLSAGEFQ LIRQTLIIFFQDLHIRVSMFLKDKVQNNNGRFVLPVSGVPVWGT EVPGLIRMFNNKGEVVKRIEFKHGGNYVPAPKEGSFEFYGDRVL KLGTNMYSVNQPVETHVSGSSKNLASWTQESIAPNPLAKEELNF LARLMGGMEIKKPSGPEPGFRLNLFTTDEEEQAALTRPEELSY EVINIQATQDQQRSEELARIMGEFEITEQPRLSSTSKGDDLLAMM DEL

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6645	6530	4646	FVEGLAGYVYKAASEGKVLTLAALLNRSSEDIRYLLGYVSQQG GQRSTPLIIAARNGHAKVVRLLLEHYRVQQTGTGTVRFDGYVID GATALWCAAGAGHFVVKLLVSHGANVNHTVTNSTPLRAACFD GRLDIVKYLVENNANISIANKYDNTCLMIAAYKGHTDVVRYLLE QRADPNAKAHCGATALHFAAEAGHIDIVKELIKWRAAIVVNGHG MTPLKVAAESCKADVVELLLSHADCDRRSRIEALLLGASFAND RENYDIKTYHYLYLAMLRFQDGDNILEKEVLPPIHAYGNRTE CRNPQELSIQRDALHMEGLIVRERILGADNIDVSHPIIYRG AVYADNMEFEQCIKLWLHALHLRQKGNRNTHKDLLRFAQVFSQM IHLNETVKAPDIECVLRCSVLEIEQSMNRVKNISDADVHNAMDN YECNLVTFYLYVCISTKTQCSEEDQCKINKQIYNLIHLDPRTRE GFTLLHLAVNSNTPVDDFHTNDVCSFPNALVTKLLLDCCGAEVNA VDNEGNSALHIIIVQYNRPISDFLTLSHIIISLVEAGAHTDMTNK QNKTPLDKSTTGVSEILLKTQMKMSLKCLAAARAVRANDINYQDQ IPRTLEEFVGFH
6646	176	890	PSSRMNHLPEDMENALTGSQSSHASLRNIHSINPTQLMARIESY EGREKGISDVRRFTCLFVTFDLLFVTLWLIIELNVNGGIENL EKEVMQYDYSSYFDIFLLAVFRFKVLILAYAVCLRHHWAIAL TTAVTSAPLLAKVILSKLFSQGAFGYVLPITISFILAWIETWFLD FKVLPQEAEEENRLLIVQDASERAALIPGGLSDGQFYSPPESEA GSEEAEEKQDSEKPLEL
6647	176	890	PSSRMNHLPEDMENALTGSQSSHASLRNIHSINPTQLMARIESY EGREKGISDVRRFTCLFVTFDLLFVTLWLIIELNVNGGIENL EKEVMQYDYSSYFDIFLLAVFRFKVLILAYAVCLRHHWAIAL TTAVTSAPLLAKVILSKLFSQGAFGYVLPITISFILAWIETWFLD FKVLPQEAEEENRLLIVQDASERAALIPGGLSDGQFYSPPESEA GSEEAEEKQDSEKPLEL
6648	413	897	RNCWNCFTKYFNSPPEDIDHKDSYLIITRSIMAEPTYIEDNPEL IRPQKLIINPVKTSRNHQDLHRELLMNQKRGAPQNKPELQKVME KRKRDQVIKQKEEBAQKKSDLEIELLKRQKLEQLELEKQKLQ EEQENAFEFVKVGNLRRGTQGEVAQAQES
6649	1357	832	WIPRAAGIRHEVKWDVKEIMSQHNIYVDALLKEFEQFNRRRLNEV SKRVRIPLPVSNILWEHCIRLANRTIVEGYANVKKCSNEGRALM QLDFQQLMKLEKLTDIRPIPDKEFVETIYKAYLTENDMERWI KEHREYSTKQLTNLVNVCGLSHINKARQKLLAIDDDIRPKR
6650	32	765	LVPLVPSLLVQSCQVYRSIAMKFVPCLLLVTLSCGLTGLQAPR QKQSGTGEEFHFQTGGRDSCMRPSSLGGQAGEVWLRVPCRNND QTYWCEYRGQPSMCQAFADPKSYWNQALQELRRLHHACQGAPV LRPSVCREAGPQAHMQQVTSLLKGSPEPNQQPEAGTPSLRPKAT VKLTEATQLGKDSMEELGKAKPTTRPTAKTPQGP RP GNEEAK KKAWEHCWKPFQALCAFLISFFRG
6651	3425	1353	AKELLKVGDFSLCAGFYQNTADTMENLSKEPLASFVSESFDISA CGIATEHVKIDNSGEGLTAEAGSETLSRDGEVGVNSDMHYELSG DSDLDDLGDICRNPRDLDESYTLRGSYTRKKDVPTDGYESSLNF HNNNQEDWGCSSWVPGMETSLPPGHWTAAVKKEKCVPPYVQIR DLHGILRTYANFSITKELKDTMRTSHGLRRHPSFSANGLPSSW TSTWQVADDLTQNTLDLEYLRFHKLKQTIKNGDSQHSASSANV FPKESPTQISIGAFSTKISEAPFLHPAPRSRSPLLVTVVESDP RPQGPQRRGYTASSLDSSSSWRERCSHNRDLRNSQRNHTVSFHL NKLKYNSTVKESRNDISLILNEYAEFNKVMKNSNQFIFQDKELN DVSGEATAQEMYLFPFGRSASYEDIIIDVCTNLHVKLRSVVKEA CKSTFLFYLVETEDKSFFVRTKNLLRKGHTEIEPQHFCQAFHR ENDTLIIIRNEDISSHLHQIPSLLLKHFPSPVIFAGVDSPGDV LDHTYQELFRAGGFVISDDKILEAVTLVQLKEI IKILEKLNNG RWKWLHYRENKKLKEDERVDSTAHKKNIMLKSFQSANIIELLH YHQCDRSSTKAEILKCLNLQIQHIDARFAVLLTDKXPTIPREV

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6652	2	1343	FENNGILVTDVNNFIENIEKIAAPFRSSYW IPGSTISCSCSRRRLRGGSPPAPRLSLGAASPRPRPPLPLPLPL PFPLFLPTRPAERAWIRSRRASEWVGKMEVPRLDHALNSPTSPC EEVIKNLSLEATQLCDRDGNKSGDSGIAEMEELFPVPHNIKISNI TCDSEFKISWEMDSKSKDRITHYFIDLNNKENKNSNPKFKHKDVPT KLVAKAVPLPMTVRGHWFLSPRTEYTVAVQTASKQVDGDYVVS WSEIIEFCTADYSKVHLTQLLEKAEVIAGRMKFSVFYRNQHK YFDYVREHHGNAMQPSVKDNSGSHGSPISGKLEGIFFSCSTEFN TGKPPQDQSPYGRYRFELAAEKLFPNPNINLYFGDFCYMYTAHYV ILVIAPVGPGEDEFCKQRLPQLNSKDNKFLTCTEEDGVLVYHHA QDVILEVIYTDVLDLSLGTVAEITGHQLMSLSSTANAKKDPSCKT CNISVGR
6653	170	1910	FFLEPRLRFPFASRARFVPPARTRPSPLHPCCFCEGGGSMSPQ RVAAAASRGADDAMESSKPGPVQVVLVQKDQHSFELDEKALASI LLQDHIRDLVVVVSVAGAFRKGKSFILDFMLRYLYSQKESGHS NWLGDPEEPLTGFSWRGSDPETTGIIQIWEVFTVEKPGGKKVA VVLMDTQGAQFDSQSTVKDCATIFALSTMTSSVQIYNLSQNIQED DLQQLQLFTEYGRLAMDEIFQKPPQTLMLFVRDWSFPYBYSYGL QGGMAFLDKRLQVKEHQHEETQNVNRNHIHSCFSDVTCFLPHPG LQVATSPDFDGKLDIAGEFKEQLQALIPYVLNPSKLMKEKING SKVTCRGLLEYFKAYIKIYQGEDLPHPKSMLQATAEAYNLAAAA SAKDIYNNMEEVCGGEKPYLSPDILEEKHCEFKQALDHFHKT KKMGKDFSFYQQELEEEIKELYENFCRHNGSKNVFSTFRTPA VLFTGIVALYIASGLTGFIGLEVVAQLFNCMVGLLLIALTLTGY IRYSGQYRELGGALDFGAADVLEQASSHIGNSTQATVRDAVVGR PSMDKKAQ
6654	1	705	RTSLSPSCQSSFNLMASAGMQLGVVLTLLGWVNGLVSCALPM WKVTAFIGNSIVVAQVWEGWMSCVVQSTGQMCKVYDSLAL PQDLQAARALCVIALLVALLFGLLVYLAGAKCTTCVEEKDSKARL VLTSGIVFVISGVLTLPVCWTAHAVIRDFYNPLVAEAQKREL ASLYLGWAASGLLLGGGLLCTCPSGGSGQPSHYMARYSTSAP AISRGPSSEYPTKNYV
6655	341	16	KDAYMFKGLLALALVFSLPVFAAEHIWIDVRVPQYQCEHVQGA INIPLEKVKERATAVPDKNDTVKVVCNAGRQSGQAKEILSEMG YTHVENAGGLKDIAMPKVKG
6656	2	1212	TELPFRPANLAIQPPLSPLRALAPLPEKPGAVPPPQKRMKAVAK DLNPGVKKMSLGLQSARGVACLCKGTCSGFEPHSWRKICKSC KCSQEDHCLTSDLEDDRKIGRLLMDSKYSTLTARVKGGDGIRIY KRNRIMITNPATGKDPTFTTITYEWAPPVGTQKLGLQYMEILP KEKQPVGTGEGAFYRRRQLMHQLPIYDQDPSRCRGLLENELKLM EEFVKQYKSEALGVGEVALPGQGLPKKEGKQKEKPEGATTTAA TTNGSLSDPSKEVEYVCELCKGAAPPDSPVVYSDRAGYNKQWHP TCFVCAKCSBPLVDLIYFWKDGAPWCGRHYCESLRPRCSGCDRI IFAEDYQRVEDLANHRKHVFCEGCEQLLSGRAYIVTKGQLLCPT CSKSKRS
6657	830	2120	LLTCQERAGDCLLSASTMKEVVVWSPKKVADWLLLENAMPEYCEP LEHFTGQDLINLTQEDFKKPLCRVSSDNGQRLDMITLKMHEH HLEAHKNGHANGHLNIGVDIPTDGSFSIKIKPNGMNGYRKEM IKIPMELEERSQYPMEWGKTFLAFLYALSCFVLTVMLSVVHER VPPKEVQPPPLPDTFFDHFNRVQWAFSICEINGMILVGLWLIQWL LLKYKSIISRRFFCIVGTLYLYRCITMVVTTLEVPGMHFNCSFK LFGDWAEQLRRIMKLIAGGGLSITGSHNMCGDYLVSHTVMLTL TYLFIKEYSPRRLWYHWICWLLSVVGFCILLAHDHVTDVVDV AYYITTRLFWWYHTMANQQVLKEASQMNLLARVWVYRPFQYFEK NVQGI VPRSYHWPFPWPVVLHLSRQVKYSRLVNDT
6658	35	855	HCCALGAPGSPYRGLYFSSAAPCTAPRKAKHQSTLEGLTKRMLM

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			FDPVPVKQEQAMDPVSVSYPSNYMESMKPKYGVYISTPLPEKFF QTPEGLSHGIQMEPVDLTVNKRSSPPSAGNSPSSLKFPSSHRRASPGLSMPSSSPPIKKYSPSPGVQPFVPLMPPVMAAALSRHG IRSPGILPVIQPVVQPVFMYTSHLQQPLMVSLSEEMENSSSS MQVPVIESYEKPISQKKIKIEPGIEPQRTDYYPEEMSPPLMNSV SPPQALLQE
6659	18	523	EPQRGDCETWFCNCSLKFVCFCCWGFWLWRAHSMNSNLHSLPGL RGLTSSIRNQLQCTNAMRVINNYQRRWKNQNTFLLATFANVNV CGNPTITCPHNRTLNNCHSGVQVPLMYCNLTTPSPQNISNCRY AQT PANMFYIVACDNRDQRRDPQYVVPVHLHTII
6660	514	1707	CAASLDCRHHLCPEPDMKLVWPSAKLLQAAAGASARACDSVTSNV LPLLEQFHKHSQSSQRTILEMLLGLFLKQKWSYEDKQRP L NGFKDQLCSLVFMALTDPTQLQVGI RTLTVLGAQPDLLSYED LELAVGHLYRLSFLKEDSQSCRVALEASGTLAALYPVAFSSHL VPKLAEBELRVGESNL TNGDEPTQCSRHLCLQALSAVSTHPSIV KETLPLLLQHLWQVNRGNMVAQSSDVIAVCOSLRQMAEKCCQDP ESCWYFHQTAIPCLLALAVQASMPKEKPSVLRKVLEDEVLAAM VSVIGTATTHLSPELAAQSVTHIVPLFLDGNVSFLPENSFPSPRF QPFQDGSSGQRRLIALLMAFVCSLPRNVSEHIWEVLLFNLDKVT PG
6661	179	430	GVHAASGTLSATWLAELAKMFDLSLAKAGKYLQAAKLMIGMPDYD NYVEHMRVNHDPQTPMTYEEFFRERQDARYGGKGGARCC
6662	185	423	RSLPKPAPAPASIHCA RFSGVTPPTAKTAMSDGNTAFNALMYC GPKADDDGNIFSACAPASSAVKASVSVAQPGQAVIP
6663	3	1005	RPVLSSRVDDFVFFLPETSGRRKKLERMYSVDRVSDDIPIRTWF PKENLFSFQTASTTMQAISNFRKHLRMVGSRRVKAQTFAERRER SFSRSWSDP TPKADTSHDSRDSSDLQSSHCTLDEAFEDLDWDT EGGLEAVACDTEGFVPPKVM LISSKVPKAEYIPTIIRDDPSII PILDYHEHATFEDILEEIERKLN VYHKGAKIWKMLIFCQGGPGH LYLLKNKVATFAKVEKEEDMIHFWKRLSRLMSKVNPEPNVIHIM GCYILGNPNGEKLFQNLRTIMTPYRVTFRSPLELSAQGKQM IET YDFRLYRLWKSQRHSHKLLDFDDVL
6664	58	968	PRLLRLRPSRVVMDSPWDELALAFSRTSMFPFFDIANYLVSVMA VKRQPGAAALAWKNP ISSWFTAMLHCFGGGILSCLLAEPLKFL ANHTNILLASSIWIYITFFCPHDLVSQGYSLPVQLLASGMKEV TRTWKIVGGVTHANSYYKNGWIVMIAIGWARGAGGTIITNFERL VKGDWKPEGDEWLKMSYPAKVTL LGSVITFFQH'QHLAISKHNL MELYTIFIVATKITMTTQTSTMTFAFFEDTL SWMLFGWQQPFS SCEKKSEAKSPSNGVGLSLAKPVDVASDNVKKKHTKKNE
6665	171	1278	DERRLACRQVVTQQRSELYPGFQKRQRF LFKAGEEAAAQGGRH L PGRWLGP GCTQNPCSVHTATGPEPRKLPLLEPDSFNSGYPK E PAALCPGIPSPCRMTHQDLSITAKLINGGVAGLVGVTCVFPID LAK TR LQNOHGKAMYKGMIDCLMKTARAEGFFGMYRGA AVNLTLVTP EKAIKLAANDFFRRLMEDGMQRNLKMEMLAGCGAGMCQVVVTC PMEMLKIQLQDAGR LAVHHQGSASAPSTSRSYTTGSASTHRRPS ATLIAWELLRTQGLAGLYRGLGATLLRDIPFSIIYFPLFANLNN LGFNELAGKASFHSHFVSGCVAGSIAAVAVTPLDVLKTRIQT LK KGLGEDMYSGITDCAR
6666	498	2868	MTTFLPVPQMAGFSFGTFGNPPMESPSAWCTIHQPFIVSCLTL WSPGCGWPQPIQKEGVGLWDIRKPQSSLLRYGGNLSLQSAMSVRF NSNGTQLLALRRRLPPVLYDIHSRLPVFQFDNQVYFNSCTMKSC CFAGDRDQYILSGSDDFNLYMWRI PADPEAGGIGRVVNGAFMVL KGHRSIVNQVRFPHTYMICSSGVEKI IKIWSPYKQPGCTGDLD GRIEDDSRCLYTHEEYISLVNLNSGSGLSHDYANQSVQEDPRMMA FFDLSLVRREIBGWSSSDSDLSLSESTILQLHAGVSRSGYTDSES SASLPRSPPTVDESADNAFHLGFLRVTTTNTVASTPPTPTCED

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			AASRQQLSALRRYQDKRLALSNESDSEENVCEVELDTDLFPR PRSPSPEDSSSSSSSSSEDEELNERRASTWQRNAMRRRQKT TREDKPSAPIKPTNTYIGEDNYDYPQIKVDDLSSSPTSSPERST STLEIQPSRASPTSDIESVERKTYKAYKNLRYSYISYSNNKDG E TSLVTGEADEGRAGTSHKDNPAPESSKEACLNIAAQRNQDLPP EGCSKDTFKEETPRTPSNGPGHEHSSHAWAEVPEGTSQDTGNSG SVEHPFETKKLNGKALSSRAEPPSPFPVKASGSTLNSGSGNCP RTQSDSDSEERSLETICANHNNGRHLHPRPFPNNGQNLGELEVY AYSSPGHSDTDRDNSSLTGTLLHKDCCGSEMACEFENAGTREDDP TDTPATDSSRAVHGHSGLKQRQRIELEDITDSENSSEKKLKT
6667	171	1310	ABEERLAAMRSDSLVPGTHTPPIRRRSKFANLGRIFKPWKWRK KKSEKFKHTSAALERKISMQRQREELIKRGVLKEIYDKDGELSI SNEEDSLENGQSLSSQLSLPALSEMFPMPDRPCSSEYVLQPS DIMDGPDPGAPVKLPCLPVKLSPLPPKVMICMPVGGPDLSLV SYTAQKSGQQGVAQHHTVLPSTQIQHQLQYSGHGHLPSTTGS L PMHPSGCRMIDELNKTLMQRLLESSEQRVPCSTSYHSSGLHS GDGVTKAGPMGLPEIRQVPTVVICDDNKENVPHESEDYEDSSCL YTREEEEEEDEDDSSLYTSSLAMKVCCKDSLAIKPSNRPSKR ELEENILPRQTDERLELRQQIGTKL
6668	714	358	TLAVATGPALTLRCHVCTSSSNCKHSVVCPPASSRFCKTNTVBP LRGNLVKKDCAESCTPSYTLQGGVSSGSTQCCQEDLCNEKLH NAAPTRTALAHSAALSGLALSLLAVILAPSL
6669	459	1207	KDEETRKDYDMLDHPBYSHYHYHYSRRLLAPKVDVRVVLVS VCAISVFQFFSWNSYNKAIISYLATVPKYRIQATEIAKQQLLK KAKEKGNKKSKEEIRDEENILKNIIKSKIDIKGGYQKPKQICD LLLFQIILAPFHLCSYIVWYCRWIYNFNKKGKEYGEEERLYIR KSMKMSKQFDSLEDHQKETFLKRELWIKENYEVYKQBQBEELK KKLANDPRWKRYRRWMKNEGPGRITFVDD
6670	184	594	VARI*CEAAKMSSEPPFPYPGGPTAPLLEKSGAPPTPGRSSPA VMQPPPGMPLPPADIGPPPYEPPGHMPQPGFIPPHMSADGTYM PPGFYPPGPHPPMGYYPPGPYTPGPYPGPGGHTATVLPVSGAA TTVTV
6671	1	763	LPAEKPRSAAPNMAGRCGPQLTALLAAWIAVAATAGPEEAALP PEQSRVQPMNTASNWTLVMEGEWMLKFYAPWCPSCQQTDEWEAF AKNGEILQISVGKVDVIEPGLSGRFFVTTLPAFFHAKDGIFFR YRPGCIFEDLQNYILEKKWQSVPLTGWKSPASLTMSGMAGLFS ISGKIWHLHNYFTVTLGIPAWCSYVFFVIATLVFGLSMDLV*V ISQCNWDPPYRHVS*/RPSTNLGVHTAHTSEHLRL
6672	304	1089	APGSKPVQFMDFEGKTSFGMSVFNLNA*MGSGILGLAYAMAHT GVIFFLALLLCIALLSYSIHLLTCAGIAGIRAYEQLGQRAFG PAGKVVVATVICLHNVGAMSSYLFIKSELPLVIGTFLYMDPEG DWFLKGNLLIIIVSVLIIILPLALMKHLGYLGYTSGLSLTCMLFF LVSVIYKFKQLGLCYRATMKQWSEALVGTPOPRDSTAAVKAQ MFHS*LTGVLTQWPIMAFAFVCHPGGAGPSITELCRAFOAQD
6673	1116	1963	LQIQTHHTHHGARVTHLGSQQLLANAGTNLCRQQSSMAFAFSQ SVTCGPSPCVRKQESATKCLHIGACGSDLWARGWEQG*G*GLNV WLCPVAFHFRGARPAEAGGARWNSLVSSPWIPNP*HSSICAE NAVPRP*QG*KVNPQGQERQS\WVLPVPCEPLKPLGLPG*NK SFSRV/SGSKGWILPRQLM*AS*R\TPRFVPGTQWVPITW/PL ITWH*SAPTPPLKACAPAPRSDPCSSCLSCPCVTOHPRFSDTGW FGAGHCHSSCDFTKGAAGGPG
6674	1	440	LEFDYMCQDYVEVRDGDNRDQGIKRVCGNERPAPIQSIGSSL HVLFDGSKNFDGFAHYEITACSSSPCFHDGTCVLDKAGSY KCACLAGYTGQRCENLLEERNCSDPG/WPSQWVPENNRGFWAYQ PTPC*IGTRVAFFLT



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6675	277	1678	GNWPTERMAFLDNPTIILAHIRQSHVTSDDTGMCEMVLIDHDVD LEKIHPPSPMPGDSGSEIQSGNGETQGYVYAQSVDTITSSWDFGIR RRSNTAQRLERLRKRERQNIKCKNIQWKERNKQSAQELKSLFE KKSLEKEKPPISGKQSILSVRLEQCPLQLNNPNEYSKFDGKGHV GTTATKKIDVYPLPHSSQDRLLPMTVVVTMASARVQDLIGLICWQ YTSEGREPCLNDNVSAAYCLHIAEDDGEVDTDFFPLDSNEPIHKF GFSTLALVEKYSSPGLTSKESLFVRINAAGHFSLIQVDNTKVTM KEILLKAVKRRKGSQKVGSRADGVFEEDSQID IATVQDMLSSH HYKSFKVSIMHRLRFTTDVQL/GCALFPGVLRKRAAPVDCRLPS ADTWRQEQIGCCGAACAALRS*DSHKC*EGISGDKVEIDPVTNQ KASTKFWIKQKPISIDSDLLCAC\DLAEE
6676	277	1678	GNWPTERMAFLDNPTIILAHIRQSHVTSDDTGMCEMVLIDHDVD LEKIHPPSPMPGDSGSEIQSGNGETQGYVYAQSVDTITSSWDFGIR RRSNTAQRLERLRKRERQNIKCKNIQWKERNKQSAQELKSLFE KKSLEKEKPPISGKQSILSVRLEQCPLQLNNPNEYSKFDGKGHV GTTATKKIDVYPLPHSSQDRLLPMTVVVTMASARVQDLIGLICWQ YTSEGREPCLNDNVSAAYCLHIAEDDGEVDTDFFPLDSNEPIHKF GFSTLALVEKYSSPGLTSKESLFVRINAAGHFSLIQVDNTKVTM KEILLKAVKRRKGSQKVGSRADGVFEEDSQID IATVQDMLSSH HYKSFKVSIMHRLRFTTDVQL/GCALFPGVLRKRAAPVDCRLPS ADTWRQEQIGCCGAACAALRS*DSHKC*EGISGDKVEIDPVTNQ KASTKFWIKQKPISIDSDLLCAC\DLAEE
6677	277	1678	GNWPTERMAFLDNPTIILAHIRQSHVTSDDTGMCEMVLIDHDVD LEKIHPPSPMPGDSGSEIQSGNGETQGYVYAQSVDTITSSWDFGIR RRSNTAQRLERLRKRERQNIKCKNIQWKERNKQSAQELKSLFE KKSLEKEKPPISGKQSILSVRLEQCPLQLNNPNEYSKFDGKGHV GTTATKKIDVYPLPHSSQDRLLPMTVVVTMASARVQDLIGLICWQ YTSEGREPCLNDNVSAAYCLHIAEDDGEVDTDFFPLDSNEPIHKF GFSTLALVEKYSSPGLTSKESLFVRINAAGHFSLIQVDNTKVTM KEILLKAVKRRKGSQKVGSRADGVFEEDSQID IATVQDMLSSH HYKSFKVSIMHRLRFTTDVQL/GCALFPGVLRKRAAPVDCRLPS ADTWRQEQIGCCGAACAALRS*DSHKC*EGISGDKVEIDPVTNQ KASTKFWIKQKPISIDSDLLCAC\DLAEE
6678	221	865	GPSNQSSGSLSLIVTGCSYWS*INDTCTILRVLSNFGCRQ*LR PFPCSQLPMSQGCWLHLDCCCPWVPYIPGQQRKGRQMRN*QS LLGSDQBSVGLLEDLCVFNFLHVLGLFPP*PHELFLFPVVDLG FLFPLLLQGGCHCLVLPANLVSCAPQIGKLSCLRLQTHDLEGSRN HHPLFLVVGWRDAVKHLETVQSGLASLGFVGQHTSHGPP
6679	2	786	LEFARGAMFPLGQDWRS PGQNWVKTVDGWKRFLEKSGSFVSDL SSYCNKEVYNKENLFNLSNYD/SCSQEKEGHAE*QNQNS\DFH QEKWIYVHKGSTKERHGYCTLGEAFNRLDFTAALDSRRFNYV RLLELIAKSQTLTSLSGIAQKNFMNILEKVVLKVLEDQONITLIR ELLQTLTSLCTLVVRVGSVVLGNINMVMVYRMETILHWQQQLN NIQITRVSGQAQPPPGSGSLHRDTGQTRQDFEFTPTVTEESGLF
6680	1498	2951	PLCTLPMPALPGWAGERWEKOWPLA/PGPGTWQTPVGSISEE P\RKNEPDTHCPRGEARPEV*HLPKPHSPGSEGAEIQTSA*ALP /NQVSPQPQM*GAENGQDQGGKEEAGEELHRSSTGLTAAPGPF EVHRNLQTFPGLPSRGGGP/GGAGTQGSWAPGEQPP/SPLLPAS MQRSAQGLPCWEAGLVEFPTHHIPALRPSGTNATGEAFPTTCS SGP\PAAPPFTGLRPGGGSSSGHG**PGLPVGKV\GALGAAQD PQSQGRGPTQGTVTGTEMLLSGLSAGACPAARPAVP*LPSDPAS TIPKKGTRGFGEGPGVLQERNRWVVGRAQGFTSADAAGTAPPGV *LPAPLSQPFEGATEPQVRACGMAPPSPGTSGRLVANRHPGPQV AQGCPPGAGCWGSQPRGSQRCPRTYTHSPLGHGRAPCPRRCWH* WQDPPSSPRTGCLPGIPARQAYSAPRTRSRPGIRTGRAAYGFIR FQGGGGG

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6681	1169	511	INYYNNQQQRAFHKL\EKLMSPAPALGLPDLTKLFTLHVSERE KMTVGVLTQTGVFWSRPGAYLSKQLDGVSKGWPPCPRALAATAL LAQEADDELTLRQNLNRKSPHA\VVTLINTKGHH*LINARLTRYQ TLLCENPHKTIIEVSNT/LNPATLLLVTESPVKHCNLEVLDSVYS SRPNLRDHP*TSVDWELYVDGSGGFANFCKVTLKKETSAPVTPR S
6682	109	1238	TVLCGAMQVSSSLNEVKIYSLSCGKSLPEWLSDRKKRALQKKD VD VRRRIELIQDFEMPTVCTTIKVS KDQYILATGTYKPRVRCYDT YQLSLKFERCLDSEVVTFEILSDDYSKIVFLHNDRIEFHQS QG FYYKTRIPKFG RDFS YHYPSCDLYFVGASSEVYRLNLEQGRYLN PLQTDAAENNVCDINSVHGLFATGTIEGRVCEWDPRTRNRVGLL D\AP*TVSQQIQR*TSLP TISALKFN\GALTMVAGTTTGQVLLY DLRS DKPLLVKDHQYGLPIKSVHFQDSL D LLSADSRIVKMWNK NSGKIFTSLEPEHDLNDVCLYPNSGMLLTANETPKMGIYYIPVL GPAPRWCSFLDNLTEELEENPESNE
6683	109	1238	TVLCGAMQVSSSLNEVKIYSLSCGKSLPEWLSDRKKRALQKKD VD VRRRIELIQDFEMPTVCTTIKVS KDQYILATGTYKPRVRCYDT YQLSLKFERCLDSEVVTFEILSDDYSKIVFLHNDRIEFHQS QG FYYKTRIPKFG RDFS YHYPSCDLYFVGASSEVYRLNLEQGRYLN PLQTDAAENNVCDINSVHGLFATGTIEGRVCEWDPRTRNRVGLL D\AP*TVSQQIQR*TSLP TISALKFN\GALTMVAGTTTGQVLLY DLRS DKPLLVKDHQYGLPIKSVHFQDSL D LLSADSRIVKMWNK NSGKIFTSLEPEHDLNDVCLYPNSGMLLTANETPKMGIYYIPVL GPAPRWCSFLDNLTEELEENPESNE
6684	111	527	GLRGGTSRGRAGREPEFAAGVLCVAGFCQSPCPPGGRGREAPA PF\SGRRHA*RPA*WLGGPGGDSGGREEGGS/GELQRAMESKM G ELPLDINI QEP RWDQSTFLGRARHFFVTDP RNL LLSGAQLEAS RNIVQNYR
6685	258	1473	KLLGDNFEGFCNKFELSDSENGSNS*OSPL\FDR LFD PDPQKVL OGVIDMKNVIGNNKQKANLIVIGAVPRLLYLLQQETSSTELKT ECAVVLGSLAMGTENNVSLLDCHIIIPALLQGLLSPDLKFIEAC LRCLRTIFTSPVTPEELLYTDATVPHLMALLSRSRYTQBYICQ IFSHCKGPDHQTI LFNHGA VQNI A HLLTSLSYKVRMQALKCF S VLA FENPQVSMTLVNVLVDGELL PQIFVKMLQRDKPIEMQLTSA KCLTYMCRAGAIRTDNCIVLKTLPCLVRMC SKERLLEERVEGA ETLAYLIEPDVELQRIASITDHLIAMLADYFKYPSSVSAITDIK RLDHDLKHAHEL RQA AFKLYASLGANDEDIRKKVSLGEGRPV L TASRQGV TST
6686	310	927	DSVTFDDLAVDFTPKWTLTLDPTQRNLYRDVMLENYKNLATVGY QLFKPSLISWLEQESRTVQRGDFQASEWKVQLKTELALQQDV LGEP TSSGIQMIGSHNGGEVSDVKQCGDVSSEHSC LKTHVRTQ N SENTFECYLYGVDFLT LHKKTSTGEQRSVF SHVWKKPSSLNPDV VCQKNRCTRKKKAF*LQ LTLGKSFH*SIHT
6687	181	915	EAMLEAPYKKEEDEQQRKEVKDYPSNTTSTSTNSGNETSGSST IGETSNRSRDRDRYRRNRSRSPGRQCRHRSRSDWRHGSER SRDHRREDRVHYRSPPLATGEPVDNLSPEERDARTVFCMQLAAR IRPRDLEDFSAVGKVRDVRIISDRNSRRSKGIAYVEFCEIQSV PLAIGLTGQRL LGVPIIVQASQAENRLAAMANNLQKNGGPMR LYVGS LHFNITEDMLRGIFEPFGKV
6688	1025	1	AEVPNYPRVFHKCPDSCWRFKFQPTQLQPYILLFSSEKPPISF SEPLPR/SATARMATAAAPNSSIDLPSDSGMGFI SPAGDSL D LP SDGGTGFFSLAGDSSSTRLSLAFISFSLSSVS VGS SAGTTS STSVGSVVAFTSSSSSSSTNRDVAGLDFSTVITSVGSGLVPSRE VAVICGSKGAGASGSASCSSRAGKTTEATAASSMPSGTSSSFTC TMSELEELFSLFSPAPLLSKLFTSSGSAICQDSGSPSDTGRLS VCQLWLADSDTGKLSDCQEVVTVGDSGGITCPELSLGRM*MSLL

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			SSAVIFGYSSSSDSRLNTVFTVDLLCEFTKSST
6689	640	1299	SSASYSATSISDTSFSGSLKHLHLLSALDSSSRSTS*STSS AEDSTFRICSPSVSDTSSDSSGSKDNVILFSKVSIS*SCFSLSS FFSDSISFCFSSSSFCR*FVSSKVSQNALSSRLSNGPGSSK QRNSLTARQLAMSL*ATKF*RNACNPCLSSKKSAL*LSLNQRF GGSASRKPGNISFNSQKCSALSYCCNFVIKPREVSVSSENYPAF
6690	1	442	GTRGKMAATLGLGSGWQWRRCLRSARDGSRMLLLLLLLSGQGP QQVGAGQTFEYLKREHSLSKPYQGVGTGSSSLWNLMGNAMVMTQ YIRLTDMQSKQGALWNRVPCFLRDWELQVHFQIHCQGGKKNL\H GDGLAIWYTKDRMQP
6691	287	1401	LKTETSEBKARRYKDRPSQINAVFQEQKKMIQAQESITLEDVAV DFTWEEWQLLGAQKDLRYDVMLENYSNLVAVGYQASKPDALFK LEQGEQLWTIEDGIHSGACSDIWKVDHVLRLQSESLVNRKFC HEHDAFENIVHCSKSQFLGQNHDIPLDRGSKLSNLTNLVNSK GYEIKNSVEFTGNGDSFLHANHERLHTAIKFPASQKLISKQS ISPKHQKTRKLEKHHVCSECGKAFIKKSWLTDHQVMHTGKPHR CSLCEKAFSRKFMLTEHQRTHTGEKPYECPEGKAFLLKKSRLNI HQKTHTEGKPYICSECGKGFQKGNLIVHQRIHTGEKPYICNEC /GKGFTQKTCLIAHQRFHTER
6692	178	939	WIKGELSLWERFCANIKAGPMPKHIAFIMDGNRRYAKKQCV RQEGHSQGFNKLAEFLRWCLNLGILEVTTVYAFSINFRKRSKSEV DGLMDLARQKFSRLMEEKEKLQKHGVCIRVLGDLHLPLDLQEL IAQAVQATKNYNKCFNLVCFAYTSRHEISNAVREMAWGVQGLL DPSDISESLLDKCLYTNRSPHPDILIRTSGEVRLSDFLWQTS SCLVFQPVLPWEYTFWNLFETAILQFQMNHSLVQK
6693	178	939	WIKGELSLWERFCANIKAGPMPKHIAFIMDGNRRYAKKQCV RQEGHSQGFNKLAEFLRWCLNLGILEVTTVYAFSINFRKRSKSEV DGLMDLARQKFSRLMEEKEKLQKHGVCIRVLGDLHLPLDLQEL IAQAVQATKNYNKCFNLVCFAYTSRHEISNAVREMAWGVQGLL DPSDISESLLDKCLYTNRSPHPDILIRTSGEVRLSDFLWQTS SCLVFQPVLPWEYTFWNLFETAILQFQMNHSLVQK
6694	292	813	SLLLHLAPPGAYTPSQPLSSVSTETASSVRRQAAESRQHEL EVHSLGQILPDGLTAAAGPPEAQDPWGSFGISLPAAHIGFAAA LAVGPSGCHTEP\FDEVWPSLFLGDAYAARDKSKLIQLGITHV NAAAGKFQVDTGAKFYRGMSLEYGTEADDNPFDFLSVYFLP
6695	292	813	SLLLHLAPPGAYTPSQPLSSVSTETASSVRRQAAESRQHEL EVHSLGQILPDGLTAAAGPPEAQDPWGSFGISLPAAHIGFAAA LAVGPSGCHTEP\FDEVWPSLFLGDAYAARDKSKLIQLGITHV NAAAGKFQVDTGAKFYRGMSLEYGTEADDNPFDFLSVYFLP
6696	1	782	PRVRGRVGERWAFSLVPAAMSSMEPELLLAWSYFRRRKFLC LCTQMLEKSPYDQAAWILKARALTEMVYIDEIDVDQEGIAEMML DENAIQVPRPGTSLKLPGTNQTGGPSQAVRPITQAGRPITGFL RPSTQSGRPGTMEQAIPTPTAYTARPTSSSGRFVRLGTASML TSPDGPFFINLSRLNLTKYSQKPKLAKALIEYIFHHENDVKTALD LAALSTEHSQYKDWK/DQIEKCYRVGMRYBAEKQIKS
6697	3	782	PPLFLRLNSRALRPGSRKVMVVPASLSGQDVGSFAYLTIKDR IPQILTKVIDTLHRHKSEFEKHEGVEAEKKAISLLSKLRNE LQTDKPFIFLVEKFDVTDIWNQVLEYQQSLLNESDGKSRWFYS WLLV\ECYMYRRIHEAI\IQSPPIDYFDVFKESKEQNPYGSQS IIALCTHLQQLIRTIEDLD\ENQLKDEFFKLLQISLWGEISVDL SL\SGGESSQNTNVLNSLEDLKPFIILLNMEHLWSLLSNCK
6698	668	754	VGSCACAGSCKCKECKCTCKKSECRAPF
6699	325	492	EGELP/PARRVLPAMTASAPRGRPPGVGVVVTSCKHPRCV LLGKRKGSVGAGSFQLPGHLEFGETWEECAQRETWEAALHLK NVHFASVNSFIEKENYHYVTILMKGEVDVTHDSEPKNVEPEKN

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			ESKRRIYNHAFFFQESKWSGGILQ
6700	1098	1392	TQCWRSSTPGMRTHFRTQP/RLECGQGFSGQENGHCMDTNECTQ FPFVCPDRDKPVCVNTYGSYRCRTNKKCSRGYEPNEDGTACVERT LLLGLCNLLGK
6701	2	1485	AAAGPRTVRRAAAAFEGQPSFSPGLGPTSDKAAAARTPKRRRLW RQRQ/HPAMLCYVTRPDAVLMEVEVEAKANGEDCLNQVCRRRLGT IEVDYFGLQFTGSKGESLWLNLRNRISQOMDGLAPYRLKLRVKF FVEPHLILQEQTRHIFFLHIKEALLAGHLLCSPEQAVELSALLA QTKFGDYNQNTAKYNYEELCAKELSSATLNSIVAKHKELEGT SQ ASAEYQVLQIVSAMENYGIWHSVRDSEGGKLLIGVGPBGISIC KDDFSPINRIAYPVVQMATQSGKNVYLTVTKESGNSIVLLFKMI STRAASGLYRAITETHAFYRCDTVTSAVMMQYSRDLKGLHSLASL LNENINLGKKYVFDIKRTSKEVYDHARRALYNAGVVDLVSRNNQ SPSHSPLKSSSESMNCSSCEGLSCQQTTRVLQEKLRKLKEAMLCM VCCEEBINSTFCPCGHTVCCESCAQLQVGESAAHFCLQPHLSL LLTGSRSQVLAR
6702	397	1971	PLAKFLKLDLVNVLCLPMEDVFLFYRTCFCSMGLGSSCHLSLPK RAEALLCSRKATVVRDLVAVRMAEEQFTQLCKLPAQPSHPHCV NNTYRSAQHSQALLRGLLALRDSGILFDVVLVVEGRHIEAHRIL LAASCDYFKGMFAGGLKEMEQUEEVLHGVSYNAMCQILHFIYTS ELELSLSNVQETLVAACQLQIPELIHFCCDFLMSWVDEENILDV YRLAELFDLSRLTEQLDITYILKNFVAFSRDQYRQLPLEKVYSL LSSNRLEVSCETEVEGALLYHYSLEQVQADQISLHEPPKLEET VRFPMEAEVLQRLHDKLDPSPLRDTVASALMYHRNESLQPSLQ SPQTELRSDFQCVVGGGIIHSTPS\MSSATRPKYLNPLLGWKH FTASLAPRMSNQCI AVLNNFVYLIGGDNNVQGFRAESRCWRYDP RHNRWFQIQSLQOEHADLSVCVVGRIYIYAVAGRDYHNDLNAVER YDPATNSWAYVAPLKREVAHAGATLEGKMYITCGRGRIT
6703	45	1244	GVGPRAAAMPLELELCPRGWVGQHFCEI IAEIGONHQDLDVA KRMIRMAKECGADCAKFOKSELEFKFNKALBRPYTSKHSWGKT YGEHKKRHLFESHQYRELQRYAEVGI FFTASGMDMAVEFHE LNVPPFFKVGSGDTNFPYLEKTAK/TRGWHSVLRDVCVQLNDE TSSWDVLGRVRTSKEKVLMLVLDYSGRPMVSSGMQSMDTMKQ VYQIVKPLNPNFCFLQCTSAYPLOPEDVNLRVISEYQKLFPPDIP IGYSCHETGIAISVAVALCAKVLERHITLDTKTKGSDHSASLE PGELAELVRSVRLVERALGSPKQLLPCEMACNEKLGKSVVAKV KIPBGTILTMDMLTVKVGEPKGYPPEDIFNLVGKKVLVTEEBDD TIMBE
6704	82	1007	TMNTRNRVNSGLGASPASRPTRDPQDPSGRQGEISPVEDQREG LEAAPKGPSRESVVHAGQRRTSAYTLIAPNINRRNEIQRIABQE LANLEKWKQNRAPVHLVPRRLGGSQSETEVRQKQQLQLMQSK YKQKLKREESVRKKEAEAEALQMKKAIQREKSNKLEKKRLQE NLRREAFREHQYKTAEF/LRQTEHRIARQKCLSKCLWPITILN MGQKLGLO\DSLKAEENRKLQMKDEQHQKSELLEKRRQQEQE RAKIHQTEHRRVNNAFLDRLQGSQPGGLEQSGGCWNMNSGNSW GI
6705	2	786	RLCRNSARVPCGWSASRSLGEGAGFIFGLRGPFRAGGTGTSFT SYKRKGGIMSTIAAFYGGKSILITVATCFLGKELMEKLFRTSPD LKVIYILVRPKAGQTLQHRVFQILDSKLFEKVEVRPNVHEKIR AIYADLNQNDFAISKEDMQELLSCTNI IFHCAATVRFDDTLRHA VQLNVTATRQLLLMASQMPKLEAFIHISTAYSNCNLKH-DEVIY PCPVEPKKIIDSLEW\LDDAIIDEITPKLIRDWPNIYTYTK
6706	130	531	FTHSSSSHSQEMLGKLNMLRNDGHFCDITIRVQDKIFRAHKVVL AACSDFFRTKLVGQAEDENKNVLDLHHVTVTGFIPLLEYAYTAT LSINTENIIDVLAASAYMQMFSVASTCSEFMKSSILWNTPSQ EK

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6707	2233	1343	YWSGIGYELQHFHWRKFHFEKKGPPSTCQERLYESRSRWPCIS* GMVVVGWTAVNGSW*GGQLRCVCVCTSHSSDSTRSSQASKCHS FFILSQ*KT*SSWENWVFAKYSRIYSYGHSCSKGRGD*DFK*NV SQAR*SRFCGLCNPCGHCGCLDINLRGGSSPWTDKHSCVHNNLLC NRRVFSLLCEGPGHCYQGAVCREACAAASPGLDSAAEPHRLCEH TD*LPK*GPGYIQHFHCDNLCILYNISFNLSYSF*GVARYA C*RCHWYFEWLLYNECGDILVACL*RRQL*SSQ
6708	115	1729	TVGSWSRSGRSPVGRQLLLTGRGAQAAGSPQGGMALQVELVPT GEIIRVVHPRPCKLALGSDGVRVTMESALTARDRVGVQDFVLL ENFTSEAAFLENLRRFRFENLIYTYIGPVLVSVPYRDLQIYSR QHMERYRGVSFYEEPPHLLAVADTVYRALRTERRDQAVMISVES GAGKTATKRLQLYAETCPAPQRGGAVRDRLLQSNPVLFAFNQ AKTLRNDNSSRFGKYMVDVQDFDKCAPVGGHILSYLLEKSRVHQN NHGERNFHIFYQLLEGGEETLRLGLERNPQSYLYLVKGGQCAK VSSINDKSDWKVVRKALTVIDFTEDEVEDLLSIAASVLHLGNH FAANEESSNAQVTTENQLKYLTRLSSVEGSTLREALTHRKIIAKG BELLSPINLEQAAYARDALAKAVYSRTFTWLVGKINRSLASKDV ESPSNRSTTVLGLLLIYGFVVFQHNSEFQFCINYCNEKLQQLFI ELTLKSEQEYEAEGIAWEPVQYFNNKIICDLVEEKFKGII\SI LDE\ECLRPGE
6709	3	894	PPHEHLFPSSGERGPFSSFLVSRRLGPGKMGKKGKKEKKGRGAEK TAAKMEKKVSKRSRKEEEDLEALIAHFQILDARTQTVELPCPP PSPRLNASLSVHPEKDELILFGGEYFNGQKTFLYNELYVYNIRK DTWTKVDIPSPPPRRCAHQAVVVPQGGGQLWVFGGEFASPNGEQ FYHYKDLWLHLATKTWEQVKSTGGPSGRSGHRMVAWKRQLILF GGFHESTRDYIYYNDVYAFNLDFTTWSKLSPSGTGPTPRSGCQ\I PSPRAASSVYGGYSKQVRVKDVKGRHSDMF
6710	158	980	RHKMTNYRVESSSGRAARKMRLALMGPAFIAAIGYIDPGNFATN IQAGASFCYQLLWVWVWNLMLLIQILSAKLGATGKNLABQI RDHYPRPVVWFYVWQAEIIAMATDLAEFIGAAIGFKLILGVSL QGAVLTGIATFLILMLQRRGQKPLEKVIQGLLLFVAAAYIVBLI FSQPNLAQLGKGMVIPSLPTSEAVFLAAGVL\GATIMPHVI/YI WHSSLTQHLHGGSRQQRYSATKWDVAIAMTIAGFVNLAIMATAA SELNIFYGHTGVA
6711	3	347	VTECKTMTCKMSQLERNI*TMINTLHHYSVKLGHPTLIHGEFK BLVRTDLHNILMKENKNDQAI*HIMEDLDTNAHQIIFKELIML MAMLTWSYHDNMHDADYGPQQHRRPG
6712	118	578	PHGQKRTRYQVRAPGQQPQAQLAMALCLKQVFAKDKTFRPRKR FEPG*TORFELYKKAQASLKSGLDLRSVRLPPGENIDDWIAVHV VDFFNRLINLIYGTMAERCS*TSFVPMAGGPRYEYRWQDERQYRR PAKLSAPRYMALLMDWIESLI
6713	2485	3	QARGSDSEDCFEIQAEDDARARKLGPGRPLTPPTSECTSDVE PDTRMVRQAQKKKKKSGGFQSMGLSYPVFKGIMKKGYKVPPTPI QRKTIPIVILDGKDVVAMARTGSGKTACFLPMPERLKTHSAQTG ARALILSPTRELALQTLKFTKELGKFTGLKTAIILGGDRMEDQF AALHENPDI I IATPGRLVHVAVEMSLKLQSVYVVFDEADRLFE MGFAEQQLQEI IARLPGGHQTVLFSATLPKLLVFEFARAGLTPEVL IRLDVDTKLNELKTSFFLVREDTKAAVLLHLLHNVRPQDQTV VVFATKHHAEYLTELLTTQRVSCAHIYSALDPTARKINLAKFTL GKCSFLIVTLLAARGLDIPLLDNVINYS*PAKGKLP LHRVGRVA RAGRSGTAYSLVAPDEIPYLLDLHLFLGRSLTLARLPKEPSGVA GVDGMLGRVPQSVDDEDSGLQSTLEASLELRGLARVADNAQQ YVRSRPAPSPESIKRAKEMDLVGLGLHPLFSSRFEEELQRLRL VDSIKNYRSRATIFEINASSRDLCSQVMRAKQKDRKAIARFQQ GQQGRQEQQEGPVGPPAPSRPALQEQKPEKEEEEEAGESVEDIFS EVVGRKQRSGPNRGAKRREEARQRDQEFYIPYRPKDFDSERG

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			LSISGEGGAFEQQAAGAVLDMGDEAQNLTGRQQLKWDRKKRR FVGQSGQEDKKIKTESGRYISSSYKRDLYQKWQKQKID*S*L GRRRGILTRRRPRTEEVGEARPLAQAGCIPGPHAPRHPLQAESA LELKTKQQLKQRRRAQKAALSQRWNPQAALCPQ
6714	169	1416	NNCQELLPPPPAPMAHITPSGGAPAAAGAAEMGPQYCVCKVELSVS GQNLLDRDVTSSKSDPPFCVLFTENNGRWIEYDRTEAINNLPAPF SKKFVLDYHFEEVQKLKFAFDQDKSSMRLEHDFLGQFSCSLG TIVSSKKITRPLLLNDKPKAGKLITIAAQELSDNRVITLSLAG RRLDKDLFGKSDPFLEFYKPGDDGKMWLVHRTVVIKYTLDPVW KPFTVPLVSLCDGDMKPIQVMCYDYDNDGGHDFIGEFQTSVSQ MCEARDSVPLEFECINPKKQRRKKNYKNSGI IILRSCKINRDYS FLDYILGGCQLMFTVGIDFTASNGNPLDPSSLHYINPMGTNEYL SAIWAVGQIIQDYDSDKMFALGFGAQLPPDPWKVSHFEAFNFPN TNPFCSGVDGIAQAYSACLP
6715	32	493	GPAGAESGSLHCLPATVQALAGAAHSPHGGOPPRRGPLIGSGMP GKPKHLGVPNGRMVLAVSDGELSSSTTGPPQGGEGRGSSLSIHS LPSGPSSPFPTEEQPVASWALSFERLLQDPLGLAYFTEFLKKEFS AENVTFWKACERFQQIPASDT
6716	1	176	GAGGPAAPRSFGSEEPRAALERDKMSARAAAKSTAMEETAWEQ HTVTLHRVSLCCSK
6717	115	896	LFAMSGFENTLNTDFYQTSYSIDDSQSQSYDYGGSGGPYSKQYAG YDYSQQGRFVPPDMMQPQQPYTGQIYQPTQAYTPASPQPFYGN NFEDEPPLLEELGINFDHIWQKTLTVLHPLKVADGSIMNETDLA GPMVFCIAFCATLLLAGKIQFGYVYGISAIIGCLGMFCLLNLSMT GVSFGCVASVLGYCLLPMLLSFAVIFSLQGMVGIIITAGIIG WCSFSASKIFISALAMEGQQLLVAYPCALLYGVFALISVF
6718	290	599	KQSSVTPGTILPSLKWNSGLCKFPETGGKMTTFKEGLTFKDV VIFTEBELGLLDPVQRNLYQDVMLNFRNLLSVGHHPFKHDVFL LEKEKKLDIMKTATO
6719	1	691	PTRPEEQDREDGKCHKMEMNPTISGNLNCDFIAMSQCSSDHGCET DLDSDDDKIEKPNFMKDSASQDNGLSRKISRKRVCSSDSSSL QVVKSSKARTGLLRITRCAATAANKIKLMSDVEDVSLNVHT RSKNGRKKPLHLACTTAKKKLSCEGSHCEVPEQYACEGKPP DDPDSEGSTKVLSQLNGDSSEDMLNSEHKHRTNIHKIDAPSK RKSSSVTSSG
6720	3	822	HEVAEEAGGTVPYQRTMPGTKRQHVIEFTPEPGKWELTGVEAA VPITEKSNPLTQDLKADAENIVRLLGQCDAEIFQEEGQALSTY QRLYSESILTTMVQVAGKVQEVLEKPDGGLVVLSGGGTSGRMAF LMSVSFNQLMKGLGQKPLYTYLIAGGDRSVVASREGTEDSALHG IEELKKVAAGKKRVIVIGISVGLSAPFVAGQMDCCMNNTAVFLP VLVGFNPVSMARHPFPFPRILRSLTVFPPLRAPHYQITSLLFMS SVVTLISE
6721	3	822	HEVAEEAGGTVPYQRTMPGTKRQHVIEFTPEPGKWELTGVEAA VPITEKSNPLTQDLKADAENIVRLLGQCDAEIFQEEGQALSTY QRLYSESILTTMVQVAGKVQEVLEKPDGGLVVLSGGGTSGRMAF LMSVSFNQLMKGLGQKPLYTYLIAGGDRSVVASREGTEDSALHG IEELKKVAAGKKRVIVIGISVGLSAPFVAGQMDCCMNNTAVFLP VLVGFNPVSMARHPFPFPRILRSLTVFPPLRAPHYQITSLLFMS SVVTLISE
6722	1	390	RSWSKRTWQALPMAVFLFLFLCGTPQAADNMQAIYVALGEAVE LPCPSPSTLHGDEHLSWFCSPAAGSFTTLVAQVQVGRPADPGK PGRSRLRLGNYSWLWEGSKEEDAGRYWCAVLGQHNYQNW
6723	173	659	VCQYCTARMADFGISAGQFVAVVWDKSSPFVEALKGLVDKIQALT GNEGRVSVENIKQLLQSAHKESSFDIILSGLVPGSTTLHSABTL AEIARILRPGGCLFLKEPVETAVDNNSKVKTASKLCSALTLSGL

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6724	173	659	VEVKELQREPLTPEEVQSVREHLGHESDNL VCQYCTARMADFGISAGQFVAVVWDKSSPVEALKGLVDKLCALT GNEGRVSVENIKQLIQSAHKESSFDIILSGLVPGSTTLHSAEIL ABIARILRPGGCLFLKEPVETAVDNNKSVKTSKLCALSALTSLGL VEVKELQREPLTPEEVQSVREHLGHESDNL
6725	356	722	RRRTPEVILATMDDDLMLALRLQEEWNLQEAERDHAQESLSLVD ASWELVDPTPDLQALFVQFNDQFFWQGLEAVEVWKSVRMTLCAG ICSYEGKGGMCSIRLSEPLLLKLRPRKDLVEVFFV
6726	98	714	HLQMKERKINRREKEKEYEGKHNLEDTDQGNCKRSTLMTLNVG GYLYITQKQTLTKYPDTFLEGIVNGKILCPFDAGHYFIDRDGL LFRHVLNFLRNGELLPEGFRENQLLAQEAFFQLKGLAEVKS RWEKEQLTPRETTFLEITDNHDSQGLRIFCNAPDFISKIKSRI VLVSKSRDLGFPPEEFSISSNIIQFKYFIK
6727	1	831	FRGMGDERPHYYGKHTPQKYDPTFGPIYNRGCTDIICCVFLL LAIVGVAVGIIAWTHGDPKVIYPTDSRGEFCGQKGTKNENKP YLFYFNIVKCA SPLVLEFQCPTPQICVEKCPDRYLTLYLNARSS RDFEYKQFCVPFGKNNKGVAEVLRDGDCPAVLIPSKPLARRCF PAIHAYKGVLMVGNETTYEDGHGSRKNITDLVEGAKKANGVLEA RQLAMRIFEDYTVSWYWDIISLGIAMAMSLFFIILLRFLAGIMG RGMIIIMGILVLGY
6728	486	935	FCSSWLRSLADSSLSWKMFLVGLTGGIASCKSSSVIQVFQQLGCA VIDVDVMARHVQPGYPAHRRIVEVFGTEVLENGDINRKLVDG LIFNQPDRRQLLNAITHPEIRKEMMKETFKYFLREPTSPRGKK HVPSALKEADSLMRRDT
6729	259	1191	VGLTGAQSGRTASMGDRQRAVAGPALRRWLLGLTVTVGFLAQSV LAGVKKFDVPCGGRDCSGGCQCYPEKGGRCQPGVPGQYNGPP GLQGFPGLQGRKGDGERGAPGVTPGKGDVGARGVSGFPGADGI PGHPGQGGPRGRPGYDGCNGTQGDGSGPQGPQSGEFTGPPGPQ PKGQKGPYPALPKERDRYRGEPEGLVGFQGPGRGPHVGMQ GPVGPGRPGPPGPGKQGGNRLGFGYGVKGEKGDVGQPGPN GIPSDTLHPILAPTGVTFHPDQYKGEKSGEGEPGIRGISLKGE GIM
6730	784	1015	NMVDYEVVLGLQRYASPEDIKKAYHKVALKNHPDKNPENKEEAE RKFKVEAAEAYEVLNDEKRDIDYKGTGTEGLNEF
6731	1	446	GIRKRLHGA VVPRVEVGC PWETRESEGVHLERPTSPLKNDEGS LDIYAGLDSAVSDSASKSCVPSRNCIDLVEEILTEEGTAKEATY NDLQVEYKQCQLQMKELMKKFKETQTNFSLINENQSLKKN <sup>-</sup> SA LIK TARVEINRKDEEI
6732	102	1205	GRWQRRPPPPSPPLWCLQPGGSDPQOLTQLRHCLSHSPQDTPW AQRQVCYTAATTOAAAPATRNCLPDESGHRPTPPRSHRHRQEN LGSIKPSSRSTKATSTTMAGDGRRAEAVREGWGVYVTPRPIRE GRGRLAPQNGGSDAPAYRTPPSRQGRREVRFSEDEPPEVYGDEF PLVAKERSVPGKTRLEEFPSDSAKEEVRESAYYLRSRQRQPR PQETEEMKTRRTTRLQQQHSEQPPLQPSVMTRRGLRDSHSSEE DEASSQTDLSQTISKKT VRS IQEAPAVSEDLVIRLRRPPLRYPR YEATSVQKQVNFSEEGETEEDDQDSSSVTTVKARSQSDSEG DKTTRSSSQYIESFW
6733	613	1311	RSCQVGMRSRNQGGESASDGHISCPKPSIIGNAGEKSLSEDAK KKKSNRKEDDVMASGTVKRHLKTSGECEKRTKKSLELSKEDLI QLLSIMEGELQAREDV I HMLKTEKTKPEVLEAHYGSAPKVL VLHRDAILAQEKSIGEDVYEKPISELDRLEEKQKETYRRLBQL LLAEKCHRRTVYELENEKHKHTDYMNKSDDFTNLLEQERERLKK LLEQEKAYQARKE
6734	189	551	SAAMFPVFSGCFQELQEKNSLELVSFEEVAVHFTWEWQQLDD AQRTLRYDVMLETYSLSLGHCTKPEMIFKLEQCAEPWIVEE

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6735	280	558	TLNRLRSGGSKKQVFSGICHRSLVELQEVHLV KSRRAVTKMSNFFLKQVFNKDKTFRPKRKFEPGTQRFELHKA QASLNAGLDLRLAVQLPPGEDLNDWVAVHVDFFNRVNLIGYTI XDGCT
6736	195	808	MNYELNFKREMPNISKSLGLTNLNFLLKRLSSVPLITDYVYPEN SSSNPYLIRRIEELNKTASGNVEAKVVCFYRRDISNTLMLAD KHAKEIEBESETTVEADLTDQKHQLKHRELFLSRQYESLPATH IRGKCSVALLNETESVLSYLDKEDTFFYSLSVYDPSLKTLLADKG EIRVGPRYQADIPEMLLEGTFFCVFAVL
6737	150	1209	PVIMPLHFSFGDIVRPSCCVSSSPKLRNNAHSRLESYRPDIDL REDTGCNLQHSIRENIDDLNMEFNPSDHPRASTIFLSKSQTDV REKRKSLFINHHPPGQIARKYSSCSTIFLDDSTVSQPNLYKTIK CVALAIYYHIKNRDPDGRMLLDIFDENLHPLSKSEVPDPDYKHN PEQKQIYRFVRTLSAAQLTAECAIVTLVYLERLLTYAEIDICP ANWKRIVLGAILLASKVWDDQAVWNVYCYQLKDTITVEDMNELE RQFLELLQFNINVPSSVYAKYFYDLRSLAEANNLSFPLEPLSRE RAHKLBAISRLCEDKYKDLRRSARKRSASADNLTFRWSPAIIS
6738	148	653	CACAEQPARAEVGAATALPVRWASGEMAPSGSLAVPLAVLVLL WGAPWTHGRRSNVRVITDENWRELLEGDWMEFYAFWCPACQNL QPEWESFAWGEDLEVNIKVDVTEQPGLSGRFIITALPTIYHC KDGEFRRYQGPRTKKDFINFISDKWKSEIEPVSSWF
6739	3	631	SWPDMAEEVAKLEKHLMLLRQEYVKLQKKLAETEKRCALLAQ ANKESSESFISRLLAIVADLYEQEQYSDLKIKVGRDHISAHKF VLAARSDSWSLANLSSTKELDLSDANPEVTMTMLRWIYTDLEF REDDVFLTELMKLANRFQLQLLRERCEKGVMSLVNVRNCIRFYQ TAEELNASTLMNYCAEIIASHWVSEVEGVNKAL
6740	3	631	SWPDMAEEVAKLEKHLMLLRQEYVKLQKKLAETEKRCALLAQ ANKESSESFISRLLAIVADLYEQEQYSDLKIKVGRDHISAHKF VLAARSDSWSLANLSSTKELDLSDANPEVTMTMLRWIYTDLEF REDDVFLTELMKLANRFQLQLLRERCEKGVMSLVNVRNCIRFYQ TAEELNASTLMNYCAEIIASHWVSEVEGVNKAL
6741	141	960	PLTLPFSSRARAGHTMNTSPGTVGSDPVLATAGYDHTVRFWQA HSGICTRTVQHQSQVNALEVTPDRSMIAAAVQPVSLGYQHIRM YDLNSNNPNPIISYDGVNKNIASVGFHEDGRWMTGGEDCTARI WDLRSRNLCQQRIFQVNAPINCVCLHPNQAELIVGDQSGAIIHW DLKTDHNEQLIPEPEVSITSAHIDPDASYMAAVNSTLVFPFSCLL PLAIGILQEGEFESLARRGLLFLACQGCNCYVWNLTGIGDEVTO LIPKTKIP
6742	141	960	PLTLPFSSRARAGHTMNTSPGTVGSDPVLATAGYDHTVRFWQA HSGICTRTVQHQSQVNALEVTPDRSMIAAAVQPVSLGYQHIRM YDLNSNNPNPIISYDGVNKNIASVGFHEDGRWMTGGEDCTARI WDLRSRNLCQQRIFQVNAPINCVCLHPNQAELIVGDQSGAIIHW DLKTDHNEQLIPEPEVSITSAHIDPDASYMAAVNSTLVFPFSCLL PLAIGILQEGEFESLARRGLLFLACQGCNCYVWNLTGIGDEVTO LIPKTKIP
6743	1	412	MHSTQDKSLHLEGDPNPSAAPTSTCAPRMPKRISISKQLASVK ALRKCSDDLKAIATTALEFRNSSSDSGKLEKAIKDLQQTFRN FAEGQETPKPYREILSELDEHTENKLDFFDMILLISITVMSDL LQNI
6744	95	1343	RTPARNCAGCEVLSRFSSPNKASSFALQSAGGGLPAVRALRRD RQKVSTVGYGMDEVEQDQHEARLKELFDSFDITGTGSLQGEELT DLCHMLSLLEEVAPVLQQTLLQDNLLGRVHFDDQKEALILISRT LSNEEHFQEPDCSLEAQPKYVRGGKRYGRRSLPEFQESVEEFPE VTVIEPLDEEARPSHIPAGDCSEHWKTQRSEYEAEGLRFWNP DDLNASQSGSSPPQDWIEKLEQVCELDGITRDGHLNRKKLVSI



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			CEQYGLQNVGDGEMLEEVFHNLDPDGTMSTVEDFFYGLPKNGKSLT PSASTPYRQLKRHLMSQSFDESGRRTTTSSAMTSTIGFRVFSCL DDGMGHASVERILDTWQEEGIENSQEILKALDFGLDGNINLTET TLALENELLVTKNSTIHQACI
6745	1	588	TFRDQGWAAQRRRWLLGCASWESWEAAIAAGPGLPSSTARQQNNP AAGTECFAAVWARGTAMGSVLSTDSGKSAPASATARALERRRDP ELPVTSTFDCAVCLEVLHQPVRTRCGHVFCRSCIATSLKNNKWTCT PYCRAYLPSEGVFATDVAKRMKSEYKNCAECOTLVCLSEMRHAI RTCQKYIDKYGPLQLELETA
6746	110	492	GATGAMAESAPARHRRKRRSTPLTSSTLPSQATEKSSYFQTEI SLWTVVAIIQAVEKKMESQAARLQSLBGRTGTAEKKLADCEKMA VEFGNQLEGGKAVLGLTLLQYGLLQRRLENVENLLRN
6747	247	484	EAVTFKDVAVVFTEEBLGLLDLAQRKLYRDVMLENFRNLLSVGH QPFHRDTFHFLEEKFMMDIATQRECNVSVYAGVC
6748	201	665	MTTFKEAVTFKDVAVVFTEEBLGLLDLAQRKLYRDVMLENFRNL LSVGNQPFHQDTFHFLEKKEFKWMKTTTQREGNSSGGKIQIEMET VPEAGPHEEWSQQIWEQIASDLTRSQNSIRNSSQPFKEGDVPC QIEARLSISXVQXPYRCNECKQ
6749	95	719	RREVKGGDGVCPRARGSPQSQQFPSCAGGEGGLQCSCEALDGM SAGGCPFAAAGGGPGGASCSVGPAGVSMFRWLEVEKEFDKAF VDVLLLGELDPDQADITYEGRQKMTSLSSCFAQLCHKAQSVSQ INHKLEAQLVDLKSLELTETQAEKVLEKEVHDQLQLHSIQLQL HAKTGQSADSGTIKAKLSGSPVEELEERELKAN
6750	3	428	SCESRRFGAKVWASGALPRDITGLGSEQPSGDVAQSNRATMGT TAPGPPIHLELDCQKLMFLCNMDNLDLVLEIIEBAERMFTR EFSKEPELMPKTPSQKNRRKKRRISYVQDENRDPIRRRLSRRKS RSSQLSSRR
6751	152	1417	PTKATEMAGASVKVAVRVPRFNSREMSRDSKCIITQMSGSTTTIV NPKQPKETPKSFSFDYSYWSHTSPEDINYASQKQVYRDIGEEML QHAFEGYNVICIFAYGQTGAGKSYTMMGKQEKDQGGIIPQLCEDL FSRINDTINDNMSYSVEVSMEIYCERVRDLLNPKNGKGNLRVRE HPLLGPYVEDLSKLAVTSYNDIQDLMDSGNKARTVAATNMNETS SRSHAVFNIIPTQKRHDAETNITTEKVKISLVDLAGSERADST GAKGTRLKEGANINKSLTTLGKVISALAEEMDSGPNKNNKKKKTID FIPYRDSVLTWLLRENLGGSRTAMVAALSPADINYEDELSTLR YADRAKQIRCAVINEDPNNKLIRELKDDEVTRLRLDLLYAQGLGD ITDMTNALVGMSPSSSLSLSSRV
6752	24	1834	RNCVPLGCVSRVKFHSIDIKMQYSHHCEHLERLNRKQREAGFL CDCTIVIGEFQFKAHRNVLASFSEYFGATYRSTSENNVFLDOSQ VKADGFQKLEFTYTGTLNLDNVNKEIHQAADYLKVEEVVTKC KIKMEDFAFLANPSSSTEISSITGNIELNQOTCLTLRDYNNREK SEVSTDLIQANPKQALAKKSSQTKKKKKAFFNSPKTGQNKTVQY PSDILENASVELFLDANKLPTPVVEQVAQINDNSELELTSVVEN TFPAQDIVHTVTVKRKGKSPQNCALKEHSMNSIASVKSPEYAE NSGEELDQRYSKAKPMCNTCGKVFSEASSLRHMRHKGVPYV CHLCGKAFTQCNQLKTHVTRHTTGKPYKCELCDKGFAQKQCLVF HSRMHHGEEKPYKCDVCNLQFATSSNLKIHARKHSGEKPVYCDR CGQRFQAASLTLYHVRHTGKPYVCDTCGKAFAVSSSLITHSR KHTGEKPFICELCGNSYTDIKNLKKHKTKVHSGADKTLDSAE HTLSEQDSIQKSPLESETMDVKPSDMTLPLALPLGTEDHMLLPV TDTQSPTSDTLRLSTVNGYSEPQLIFLQQLY
6753	2	1305	VPSPLPYPPQKVVAHTEFTTSSDSETANGIAKPDVPMPPGEEKAS PFGIKLRRITNYSIRFNCQQAQKQKKKRRSSSTGDSADAGPPAAG SARGEKEMEGVALKHGSPSLPQERKQAPSTRDSAEPPSSRSVPV AHPGFPFPASSQTPAPEHDKAANKMPLAQKPALAPKPTSTPPAS

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			PLSKLSRPYLVELLSRRAGRPDPEPSEPSKEDQESSDRRFPSPFP GPEERKQKQRDEEEERKRPASPPLEATQQEKPSQTPEAGRKE KPMQLQSRHSLDGSKLTEKVETAQPLWITLALQKQKGFREQQATR EERKQAREAKQAEKLSKENVSVSVPQSSSVSRAGSLHKSTALP EKRPEATAVSRLRERREQLKKANTLPTSVTVETISYSSPAAPLVKE VSKRFSSPDDAPVSSPAWLALAKRKAKAWSDCPLIIK
6754	2	413	FVRRRRRLGGPEVNTMSSLHKSRIADFQDVLKEPSIALEKLRE LSFSGIPCGLRCLCWKILLNLYPLERASWTSILAKQRELYAQ FLREMIQPGIAKANMGVSREDVTFEDHPLNPNPDSRWNTYFKD NEVLL
6755	298	1343	PGLQLQVALEADWFLDMPGGRGSPSRQQLSRSALPSLQTLVGGG CGNGTGLNRNNGSAIGLPVPPITALITPGPVRHCQIPDLVPDGS LLFEFFLFFIYLLVALFIQYINIKTVWWYPYNHPASCTSLNFHL IDYHLAAFITVMLARRLVWALISEATKAGAASMIHYMVLISARL VLLTLCGWVLCWTLVNLFRSHSVLNLFLGYFPFVYVLCCTFHQ DSRAHLLTLDYNYVQHEAVEESASTVGLAKSKDFLSLLES KEQFNNATPIPTHSCPLSPDLIRNEVECLKADFNHRIKEVLFNS LFSAYYVAFPLPCFVKVSGYITFCFLDLCVNYINWVFLV
6756	180	754	TERALGSLPLSIPVSWGSLRTLKYQQPLRPKVLCCQTRVQCHD LRLSQPPQGLKQSFCLRVGLQGTATPGLRDLTCKELIILTE REAQKRKRKEKESGMALTQQPLTFRDVAIEFSQEWKSLDPVQ KALYWDVMLENYRNLVFLGKDNFALEVKICPRVFLYFLCCLSW PFHYLTETEAALLTHK
6757	2	459	NSRVEAPEAHSRESQSDAMRKHLSSWWLATVCMLLFSLHLSAVQ TRGIKRIKWNKALPSTAQITEAQVAENRPGAFIKQGRKLDID FGAEGNRYYEANYWQFPDGIHYNGCSEANVTKEAFVTGCINATQ AANQGEFQKPDNKLHQQVLW
6758	1	1008	ASGPPLPGRFRDRAPWLPARLLRGVLAVWVLSALGPGSFCRR RVPSLAQLGHSEAAAPSPDDVRSRVPDRCPEDRAWPPPPPS LPPSFRNMANNSPALIGNSQPQHAAAAAAQQQQCGGCGATK PAVSGKQGNVLPWLNKMTNMLNPMILTNILSSPYFKVQLYELK TYHEVVDEIYFKVTHVEPWEKGRKTAGQTGCMGGVGRVGTGGI VSTAFCLLYKLFILKLRKQVMGLITHDTPYIRALGFMYIRRT QPPTDLWDWFESFLDDEEDLDVAGGGCVMTICEMLRSLTKLE WFSTLFPRIIPVPVQKNIDQQIKTRPKI
6759	1	513	RKHNFHISLDGTSTRAFHPTGLPLSSPVPQRKTQSGCFDLDS LLHLKSFSSRSRPRCLNIEDDDPIHEKPLSSSAPPITSLSLG NFEESVLNRYRFDPLGIVDGFTAEVAGSAGAFCTHLLTPVEVSFY SVSDDNAPSPYMGVITLESGLGRGYRVPVPSGTIQVVCVL
6760	239	606	VLSKKKGLSAEERKTRMMEIFSETKDVFLKDLKLEKIAPKEGKIT AMSVKEVLQSLVDDGMVDCERIGTSNYWAFPSKALHARKHLE VLESQLESGSQKHASLQKSEKAKIGRCETEERT
6761	29	1733	ERTLRGLREVAAPSDVADAASRRGRCCCLHCTQTQVAQDCPS SSSSVQRCLESLFQSLHTMTSKLVNSVAGCADDALAGLVACNP NLQLQGHRAVLRSDLSLKGVALLSGGGSGHEPAHAGFIGKG MLTGVIAGAVFTSPAVGSILAAIRAVAQAGTVGTLIVKNYTG RLNFGGLAREQARAEGIPEVMVVGDDSAFTVLKAGRRGLCGTV LIHKVAGALAEAGVGLLEIAKQNVVTKAMGTGLGVSLSSCSVP SKPTFELSADEVELGLGIGHGAGVRRIKMATADEIVKLMLDHMT NTTNASHVPVQPGSSVMMVNNLGGLSFLELGIADATVRSLEG RGVKIARALVGTFMSSALEMPGISLTLVDEPLKLIDAEETAA AWPNVAASITGRKRSRVAPAEPEAPDSTAAGGSASKRMALVL ERVCSLLGLEEHLNALDRAAGDGDGCTHSAARAIQEWLKEG PPPASPAQLLSKLSVLLLEKMGSSGALYGLFLTAAQPLKAKT SLPAWSAAMDAGLEAMQYKGAAPGDRMTLDSLWAAQGBL

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6762	3	613	ASTISWRLCVAGAEARRPVPVAGERAGGGAMWFMYLLSWLSLFI QVAFITLAVAAGLYLAELIEEYTVATSRIIKYMIWFSTAVLIG LYVFERFPTSMIGVGLFTNLVYFGLLQTFPFIMLTSPNFILSCG LVVVNHYLAFQFFAREYYPFSEVLAVFTFCLWIIPFAFFVSLSA GENVLPTMQPGDDVVSNYFTKGRGK
6763	2	760	SGPDFPGRFRGCCVPPAGAGMELGGEWDMNSAPRLVSETAE RKQEQKTGTAEAAADSGAVGARRFLLCLYLGGFLDLFGVSMVVP LLSLHVKSLSGASPTVAGIVGSSYGILQLFSSTLVGCWSDVVGRR SLLACILLSALGYLLGAAATNVFLFVLARVPAGIFKHTLSISR ALLSDVVPKERPLVIGHFNITASGVGFIILGPVVGGLTELEDGF YLTAFICFLVFIILNAGLVWFFPRREAKPGSTE
6764	80	438	LKKMDTMMLSVRNLFQVLRRVEILSEGENVQFIQLAKDFEDFR KKWQRTDHELKGYKDLLMKAETERSALDVKLKHARNQVDVEIKR RQRAEADCEKLERQIQLIREMLMCDTSSGIQ
6765	3	550	ARYSRVDHFCRRRCRAVARAPRFLLOFPSCPSRHFLAACVARWL RGSVLVSEALSGSAMDGI VTEVAVGVKRGSDLLSGSVLSSPNS NMSSMVVTANGNDSKKFKGEDKMDGAPSRVLHIRKLPGEVTETE VIALGLPFGKVNTNIMLKGKNQAFLELATEEAAITNGNYYSAVT PHLRNQ
6766	1	1287	EGGSFKASLTWLWPLGEMKLHCEVEVISRHLPALGLNRNGKGV RAVLSLCQQTSSRSQPPVRAFLLISTLKDKRGTREYELRENIEQFFT KFDVDEGKATVRLKEPPVDICLSKANSSSLKGFLSAMRLAHRGCN VDTPTVSTLTPVKTSEFENFKTKMVITSKKDYPLSKNFPYSLEHL QTSYCGLVVRDMRLCLKSLRKLDSLHNHIIKKLPATIGDLIHLQ ELNLDNDHLESFSVALCHSTLQKSLWSLDSLKNKIKALPVQFCQ LQELKNLKLDDNELIQFPCKIGQLINLRFLSAARNKLFPSEF RNLSLEYLDLFGNTFEQPKVLPVIKQLQAPLTLESSARTILHNR IPYGSIIIPFHLQDLDLTAICVCGRFLNSFIQGTTTMNLHSV ANTVVLDNLGGTEAPIISYFCSLGCYVNSSDI
6767	336	919	APMICLSSDLQFRYKEAFLDRDGLQIGYCVSDDDPRMKHFLNV GRLQSDNEYKKDFAKRSRQFHSSTDQPGLLQAKRSQQLASDVHY RQPLPQPTCDPEQLGLRHAQKAHLQSDVKYKSDNLNLRGVGWT PPGSYKVMARRAAELANARGLGLQGAYRGAAVEAGDHQSGEV NPDATEILHVKKKKALLL
6768	2	363	PGSTISCYLLSEGLPLCMQVACGEEKHRAPTMKTLRARFKKTE LRLSPTDLGSCPPCGPCPIPKPAARGRRQSQDWGKSDELLQAV ENNDAPRVAALIARKGLVPTKLDPEGKSAFHL
6769	284	396	MSTPDFSTAENNQELANEVSCLEKAMLTMLQAMGQAD
6770	1	397	QRNYQVIWSSTMAKLHDYKDEVVKKLMTFNFYNSVMQVPRVEK ITLNMGVGEAIADKKLLDNAADLAAISGQKPLITKARKSVAGF KIRQGYPIGCKVTLRGERMWEFFERLITIAVPRIRDFRGLSAKS
6771	3	378	APAGTLAMTGKSVKDVDRYQAVLANLLLEEDNKFCADCQSKGPR WASWNIGVFCIRCAIHRNLGVHISRVKSNLDQWTQEQIQCM QEMGNGKANRLYEAYLPETFRRPQIDPYLFWSNLEG
6772	1	1400	AAAFLLQGMTVNGFINTVITSL\ERRYDLHSYQSGLIASSYDIAA CLCLTFVSYFGSG\HKPRWLWGR\VLMTGSLVLFALPHFTAG P**GWKLDAGVRTCPANFR\PVCA\HTSGLSRYQLVFMGQFL HGVGATPLYTLGVTYLDENVKSSCSPYIAIFYTAAILGPAAGY LIGGALLNIYTEMGRRTELTTESPLWVGAWVWVGFLGSGAAFFT AVPIILGYPRQLPGSQRYAVMRAAEMHQLKDSRGEASNPDFGKT IRDLPLSIWLLKNPTFILLCLAGATEATLITGMSTFSPKFLES QFSLSASEAATLFGYLVVPAGGGGTFLGGFFVNKLRLRGSVAVIK FCLFCTVVSLLGLVFLHCPSPVMAGVTASYGGSLPEGHNLN TAPCNAACSCQPBHYSVPCGSDGLMYFSLCHAGCPAATETNVGD QKVYRDCSCIPQNLSSGFHATAGKCTST

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6773	1	630	PWEAPKEHKYKAEHTVVLTVTGEPCHFPFQYHRQLYHKCTHKG RPGPQWCATTPNFDQDQRWGYCLEPKVKDKHCSKHSPCKQGGT CVNMPGPHCLCPQHLTGNECQKEKCFEPQLLRFHFKNEIWTYRT BQAAVARCQCKGPDACQRLASQACRTNPLHGGRCLEVEGHRL CHCPVGYTGPFCDVGE*GSGASRRPAPRWDGLAR
6774	146	389	LTELSDQQYFLFFILSS/WVPTFLSMDVDGRVIKADSFSKIIS GLRIGFLTGPKPLIERVILHIQVSTLHPSTFNQLMISQ
6775	104	614	TCPSQLRVLTARGRRAPSFQLWTLVLALIEEKWRSHRILRMNS GRPETMENLPALYTIHQGEVAMVTDYGAFIKIPGCRKQGLVHRT HMSSCRVDKPSSEIVDVGDKVWVKLIGREMKNDRIKVSLSMKVVN QGTGKDLDPNNV\SLSKKRGGGDPSRITLGRRSPLRLS
6776	3	1108	HERHERHEGALSQDALLRISTPLDSNMRPEKCRFVHVPQWQLLH LNGTFPNTSDADMEPCVDGWVYDRISFSSTIVTEWDLVCDQSIL TSVAKFVFMAGMMVGGILGGHLSDRFGRFVLRWCYLQVAIVGT CAALAPTFLIYCSLRFLSGIAAMSLITNTIMLIAEWATHRFQAM GITLGMCPSGIAFMTLAGLAFAIRDWHILQLVVSVPYFVIFLTS SWLLESARWLIINNKEEGLKELRKAHRSGMKNARDITLTLEIL KSTMKKELEAAQKKKFLGERLHMPNICKRISLLPPTKFANFMA YFGLNLHG/LKHLGNNVFLQLTFLGAV/TPPGQLVLHLGHWSG RVSSRGVRNCLGLFVLQVN
6777	779	63	CFFHGPQWRDCEVRATFAKKQGSQGIISCTAFSPAQPLYACGSY GRSLGLYAWDDGSPALALLGGHQGGITHLCFHPDGNRRFSGARKD AELLCDWDLRQSGYPLWSLGREVTTNQRIYFDLDPTGQFLVSGST SGAVSVWDTDGPNGDGGKPEPVLSFLPQKDCNTGVSLEHPSLPLLG HCLPVSVCFLSPTESGGRRRGAGPSLGSPPRRHVHLECRQLWWC GGGARLQHP**SPRARKGR
6778	311	805	IQSTIDESRGSIIRKPNANTRILRLNVP/EETAGDSE/ERSPEER VQADPRIRASAPKCTSSPFPKGRSPGEGET\DPKVFHFGGP KDKSVAEKN\KGP\SPVSSGIGKDFFSMKPEWENLNQSNVRME T\AVRLNEVIVKKSRAKLVLNMPGPPRRNRNGDENY
6779	2	535	RALRQPRLLAANGIEPESMAISEPIKGRKPCVNKEELAKKP MAKCAWKGPPEPPQDARAEASPGGASESDQDGGHESPPKKKAV AWVSANPAPMRKKKVSLSGPVSYVLVDSEDGRKKPVMPKKGPG SRREASDQKAPRGQCPAEATASTSRGPKAKPEGSPPRATNESRK V
6780	3	403	HEVNDNKPEININLMSPGKEEISYIFEGDPIDTFVALVRVQDKD SGLNGEIVCKLHGHGHFKLQKTYENNYLILTNATLDREKRSEYS LTVIAEDRGTPSLSTVKHFTVQINDINDNPPHFQRSRYEFVISE K
6781	1	1269	APTRPVFPTLQDLSSSKEPSNSLNLPHSNELCSSLVHPELSEVS SNVAPSIPPVMSRPVSSSSISTPLPPNQITVFVTSNPITTSANT SAALPTHLSALMSTVVTMPNAGSKVMVSEGSAAQSNARPQFI TPVFINSSSIQVMKGSQPSTIPAAPLTNSGLMPPSVAVVGFL HIPQNIKFSAPVPPNALSSSPAENIQTGRPLVLSSRATPVQLP SPPCTSSPVVPSHPVQVKELNPEDEASPQVNTSADQNTLPSQ STTMVSPLLTNSPGSSGNRRSPVSSSKGKGVDKIGQILLTKAC KKVTGSLERGEQYGADGETEGQLDTTAPGLMGTEQLSTELDS KTPTPPAPTLLKMTSSPVGPGTASAGPSLPGGALPTSVRSIVTT LVPSELISAVPTTKSNHGGIASESLAG
6782	3	1327	RKPTVIRIPAKPGKCLHEDPQSPPLPAEKPIGNTFSTVSGKLS NVERTRNLESNHGQGTGQFVRVPPRLPPRPVNGKTIPTCQPPTK VPPERPPPKLSATRRSNKKLPFNRSSDMDLQKKQSNLATGLS KAKSQVFNQDPVLPFRPKPGHPLYSKYMLSVPHGIANEDIVSQ NPGELSCKRGDVLMKQTENNYLECQKGEDTGRVHLSQMKLIT PLDEHLRSRENPFSPPKAPSHAQKPVDSGAPHAVVLHDFPAEQV

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			DDLNLTSGEIVYLLLEKIDTDWYRGNCRNQIGIFPANYVKVIITDI PEGGNGKRECVSSHCVKGSRCVARFEYIGEQQDELSFSEGEII I LKEYVNEEWARGEVRGTGIFPLNFVEPVEDYPTSGANVLSTKV PLKTKKEDSGSNSQVNSLPAEWCEALHSFTAETSDDLSTFKRGRDR I
6783	3	1750	SYHHHHAQQSAAASPNTASQKTVTTTSMITTKTLPLVLKAATA TMPASVVGQRPTIAMVTAINSQAVALSTDVQNTFPVNLQTSSKVT GPGAEAVQIVAKNTVTTLQVQATPPQPIKVPQFIPPPRLTPRPNF LPQVRPKPVAQNNIPIAPAPPPMLAAPQLIQRPVMLTKFTPTTL PTSQNSIHPVRVVGQTATIAKTFPMAQLTSIVIATPGTRLAGP QTVQLSKPSLEKQTVKSHETETDEKQTESRTITPPAAPKPKREEN PQKLAFMVSGLVTHDHLLEIQSKRQERKRRTTANPVYSGAVFE PERKKSAVTYLNSTMHPGTRKRGRPPKYNVAVLGFGALTPTSPQS SHPDSPENEKTETTTFFPAPVQPVSLPSPTSTDGDIHEDFCSVC RKSGQLLMCDTCSRVIYHLDCLDPLKTIKGMWICPRCQDQMLK KEEAIWPWGTIAIVHSYIAYKAAKEEEKQKLLKWSSDLKQBERQ LEQKVKQLSNSISKMEMKNTILARQKEMHSSLEKVKQLIRLIH GIDLSKPDSEATVGAISNGPDCTPPANAATSTPAPSPSSQSCT ANCNQGEETK
6784	3	1750	SYHHHHAQQSAAASPNTASQKTVTTTSMITTKTLPLVLKAATA TMPASVVGQRPTIAMVTAINSQAVALSTDVQNTFPVNLQTSSKVT GPGAEAVQIVAKNTVTTLQVQATPPQPIKVPQFIPPPRLTPRPNF LPQVRPKPVAQNNIPIAPAPPPMLAAPQLIQRPVMLTKFTPTTL PTSQNSIHPVRVVGQTATIAKTFPMAQLTSIVIATPGTRLAGP QTVQLSKPSLEKQTVKSHETETDEKQTESRTITPPAAPKPKREEN PQKLAFMVSGLVTHDHLLEIQSKRQERKRRTTANPVYSGAVFE PERKKSAVTYLNSTMHPGTRKRGRPPKYNVAVLGFGALTPTSPQS SHPDSPENEKTETTTFFPAPVQPVSLPSPTSTDGDIHEDFCSVC RKSGQLLMCDTCSRVIYHLDCLDPLKTIKGMWICPRCQDQMLK KEEAIWPWGTIAIVHSYIAYKAAKEEEKQKLLKWSSDLKQBERQ LEQKVKQLSNSISKMEMKNTILARQKEMHSSLEKVKQLIRLIH GIDLSKPDSEATVGAISNGPDCTPPANAATSTPAPSPSSQSCT ANCNQGEETK
6785	1	528	LGNTVLHYCSMYSKPECLKLLLRSKPTVDIVNQAGETALDIAKR LKATQCEDLLSQAKSGKFNPHVHVEYEWNLROBEIDESDDDLDD KPSPVKKERSPRPQSFCCHSSSISPQDKLALPGFSTPRDKQLSY GAFTNQIFVSTSDSPTSPTTEAPPLPERNAGKGTGPPIPFHR
6786	1820	1397	RSPKVLVLAPTRELANHVSRDFKDI\TRKLTVARFYGGTSYQSQ INHIRNGIDILVGTGPGRKIDHLQSGRLDLSKLRHVVLDEVQML DLGFAEQVEDIIHESYKTDSDNPQTLLFSATCFQWVYTV\KK YMKSRYEQVDLDGKMTQKAATTVEHLAIQCHWSQRPVIGDVLQ VYSGSEGRAIIFCETKKNVTEMAMNPHIKQNAQCLHGDIASQR EITLKGFPREGSFKVLVATNVAARGLDIPEVDLVIQSSPPQEVES YIHRSGRTGRAGRTGICICFYQPRERQQLRYVEQKAGITFKRVG VPSTMDLVKSKSMDAIRSLASVSAAVDFFRPSAQRLLIEEGAV DALAAALAHISGASSFEPRSLITSDKGFTVMTLESLEEIQDVSC AWKELNRLKSSNAVSQITRMCLLKGNMGVCFDVPPTESERLQAE WHDSDWILSVPAKLPEIEEYDGNSTSSNRQRSGWSSGSRSGRS RSGGRSGRSRQSRQSGRSRQDGRRRSGNRNRSGHGRS FD*VFYHLVDFLSDFLVDSVYLTGRQIDHLTGLTGLIDHLTSHS SVWN
6787	2646	2270	PSSFPPKNVPLEELEPPK*KRSGLSLTPKSQIQNGP*PQTFFF FELGSPSGVISAHCNLRLLGSSDSPAFASRVAGIIGTCHHAWLI LVFLVBMGFHHVQGAGLKLTL\VIHPWPWPKVLGLQT
6788	16	936	GGTVDLR\DM LAVSVLAAVRGGR/ATVRRVRESNVLHEKSGKRT REGAEDKMTSGDVL SNRKM FYLLKTAFPSVQINTEEHVD\ELDQ

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			EVILWGS*DS*GYPKGK*LLPKEVPSP/RVLLSGLTPLDATQEB\FTEDLK\YVTTMVCVAVNGKPMGLGVHKKPFSEYTAWAMVDGGS NVKARSSYNEKTPRIVVSRSHSGMVKQVALQTFGNQTTIIPAGG AGYKVLALLDVPDKSQEKADLYIHVITYKKWDICAGNAILKALG GHMTTSLGEEISYTGSDGIEGGLLASIRNMHQALVRKLPLEKT GHK
6789	2	678	GNGINVLKIAPESAIKFMAYEQIKRLVW**PGDS*GF/YERLVA GSLAGATAQSSIYPMEVLKTRMALRKTKQYSGMLDCARRILARE GVAAFYKGYVPNMLGIIIFYAGIDLAVYETLKNALQHYAVNSAD PGVFPVLLACGTMSSTCGQLASYPLALVTRMQAASIEGAPEVT MSSLFKHLRTEGAFGLYRGLAPNFMKVIPAVSISVYVYENLKI TLGVQSR
6790	2	4068	APPAGRRRMOAAPRAGCGAALLWTVSSCLCRAWTAPSTSQKCD EPLVSGLPVHAFSSSSSISGSYSPGYAKINKRGAGGWSPSDSD HYQWLQVDFGNRKQISALATQGRYSSSDWVTOYRMLYSDTGRNW KPYHQDGNIAWPPGNINSDGVVRHELQHPILARYVRIVPLDWNG EGRIGLRLEVYGCYVADVINFDGHVLPYRFRNKKMKTLKDVI ALNFKTSESEGVILHGEQQGDYITLLEKKAKLVLSNLGSLNQL GPIYGHTSVMTGSLDDHWHVSVVIERQGRGINLTLDRSMQHFR TNGEFDYLDLDYEITFGGIPFSGKPSSSSRKNFKGCMESINYNG VNITDLARRKKLEPSNVGNLSFSCEPYTPVFFFNATSYLEVPG RLNQDLFSVSFQFRTWNPNGLLVFSHFADNLGNVEIDLTESKVG VHINITQTMSQIDISSGSGLNDGQWHEVRFLAKENFAILLTIDG DEASAVRTNSPLQVKTGEKYFFGGFLNQMNSSSHSVLQPSFQGC MQLIQVDDQLVNLVEVAQRKPGSFANVSIDMCAIIDRCVPHCE HGGKCSQTWDSFKCTCDETGYSGATCHNSIYEPSCEAYKHLGQT SNYYWIDPDGSGPLGLPKVYCNMTEDKVWTVVSHDLQMOTFVVG YNPEKYSVTQLVYSASMDQISAITDSAEYCEQYVSYFCMKSRLL NTPDGSFYTWVVGKANEKHYWGGSGGFIQKACCGIERNCTDPK YYCNCADADYKQWRKDAGFLSYKDHLPVSQVVGDTDRQSGEAKL SVGPLRCQGDNRNYWNAASFNPSSYLHFSTFOGETSADISYFYK TLTPWGVFLENMGKEDFIKLELKSATEVSFSFDVGNPVEIVVR SPTPLNDDQWHRVTAERNVKQASLQVDRLPQQIRKAPTEGHTRL ELYSQLFVGGAGGQQGFLGCIRSLRMNGVTLDEERAKVTSOFI SGCSGHCTS YGTNCENGKCLERYHGYSCDCSNTAYDGTFCNKD VGAFEBEGMWLRYNFQAPATNARDSSSRVDNAPDQONSHPDIAQ EBIKFSSTTKAPCILLYISSFTTDFLAVLVKPTGSLQIRYNLG GTREPYNIDVDHRNMANGQPHSVNITRHEKTIIFLKLDHYPSVSY HLPSSSDTLFNSPKSLFLGKVIETGKIDQEIHKYNTPGFTGCLS RVQFNQIAPLKAALRQTNASAHVHIQGEVESNCGASPLTLSPM SSATDPWHLDDLDSASADFPYNPGQQAIRNGVNRNSAII GGVI A\VVIFTPSLCTF\VL P*SR*HVSPHKGTLP\IPNEAKGAGSRQK KPGRRPSMNNDPPTSQRPIDESKKEWPHLRGGYLAGM
6791	1801	1193	TOHEGAKGEKGDKCDLGRGERGQHGPKEGKCYPGIPPEL/PGW SAVV*SWLTAASTKVQAIILLPQPLE*LG LQIAFMASLATHFSNQ NSGII FSSVETNIGNFFDVMTGRFGAPVSGVYFFTFSSMMKHEDV EEVYVYLMHNGNTVFSMYSYEMKGKSDTSSNHAVLKLAKGDEVV LRMGNALHGDHQRFSFTFAGFLLETK
6792	33	1073	VRHTNNGVDMYLFSLGSESPKGAIGHIVSTEKTI LAVERNKVLL PPLWNRTFSWGFDDFSCCLGSYGSXVLMTFENLAAGRCCLCAV CPSPTTIVTSGTSTVVCVWELSMTKGRPRGLRLRQALYGHQTQAV TCLAASVTFSLVSGSQDCTCILWDLHLTHVTRLPAHREGISA ITISDVSGTIVSCAGAHLSLWNVNGQPLASITTANGPEGAITCC CLMEGPAWDTSQIIITGSQDGMVRVWKT/VGCEVCSWTASRRG APGSASKPKRPQVGEEPGLESRAGR*HCFDREAQQNQ\ PVTAL AVSRNHTKLLVGDERGRIFCWSADG*EERGSRGSGTTVP

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6793	2340	805	GRKEANY\YGS LTQAGTVSLGLDAEGQEVFVFFSAVLPMVAPND LVFDGWDISSLNLAEMRRRAKVLDWGLQEQLWPHMEALRPRPSV YIPEFIAANQSARADNLIPGSRAQLEQIRRDIDRFRSSAGLDK VIVLWTANTERFCEVIPGLNDTAENLLRTIELGLEVSPSTLFAV ASILEGCAFLNGSPQNTLVPGALELAWQHRVVFVGDDDFKSGQTK VKSVLVDFLIGSGLKTMISVSYNHLGNNDGENLSAPLQFRSKEV SKSNVVDMDVQSNPVLYTPGEEPDHCVVIVKYPVVGDSKRALDE YTSMLMGGTNTLVHLNHTCEDSLLAAPIMDLALLTELQCRVSF CTDMDEPQTFHPVLSLLSFLFKAPLVPPGSPVVALFRQRCSCI ENILRACVGLPPQNHMLLEHKMERPGPSLKRVPVAATYPMLNK KGPVPAATNGCTGDANGHLQEPPMPTT*GPGHTVSRLEFLPAAP HDPTLKAPTNGKRGHFSPPSTWGSWGL
6794	169	1349	DDVKRKPEASAH*EKPGPPSRPGVGRGRERAGGRSGHGRSCR\ EPAPPAPAPPEDHPDEEMGFTIDIKSFLKPGEKTYTQRCRLFVG NLPTDITEEDFKRLFERYGEPSEVINRDRGFGFIRLESRTLAE IAKAELDGTILKSRPLRIRFATHGAALTIVKNLSPVVSNELLEQA FSQFGPVEKAVVVVDDRGRATGKGFVEFAAKPPARKALERCDDG AFLLTTPRPIVIEPMEQFDEEDGLPEKLMQKTQQYHKEREQPP RFAQPGTTFEYASRWKALDEMEKQREQVDRNIREAKEKLEAE MEAAARHEHQLMLMRQDLMRQEELRRLBELRNQELQKRKQIQLR HEEHRRREEMIRHREQEELRRQEGFKPNYMEYVCHFLR
6795	1740	1010	GPRRQTVRDHELDSE*DWAAQETDCAQNSGERL*KGV/LENFS TMSKSAVKISLDLLSNPLCEQDQDLLNMVLTALDTAMKRMDAFNQ EKVNIQKTVIEPLKKFGSVFPSLNMVAKRREQUALQDYRRLQAK VEKYEKEKTPVLAHLHQAAREELRPVREDFEAKNRQLEEMPR FYGSLDYFQPSFESLIRAQVVVYSEMHKIFGDLSHQLDQPGHS DEQRENERNEAKLSELRLSIVADD
6796	48	683	GKEIQPTTKLAWLLFCLE*PVGALGKGVVSF**SHVALGQLGW LTRAVRSSWRWELCVSAQEVVSQRSA*SSPSVPGACPSLNPPET SVQGERDCWQR*LPRLFSALVGQPGCWPGGAPPERCV*PGRCKW HLQSQVLR*ERRRCCRCCLPRFA*GWRRRHQRLLGLIHPAPLGST SPPHPEGNSQOCRR*GWAELRLPSSVVL*KGLGC*
6797	1620	211	TERMPSPQTRGSSCTRFSSMLWTSTWRCLTCWAGMRMSVVGVT LGPMAQGLLSASGTTTEATWTRPTTHLTIRWLLTASRVDPPE ERPPPPPSDDLTLLESSSSSYKNL/DAQIPQ/DWSMSPSTSG*RP LTRASSIMRSRTAIPAS*SRITTKHTVGGSPSAWRPRPTSRS VSTPVSSSTETTASGSCLTWWSPPAPCPSSSAPAHSEASCK TSLWGS CGSGDGSSACGSGWNLSMAGTSCSSPAMCSPSRAPS* RSASRPRTWRATTSAASSWAPRRWCWGA*SAT*PSSTTTISS PHCGWPCPASCASAAWLSSTWATASVAGSCWGPIM*SSAHSWN CLSACSRSSMGTTC*RSPP\SGASRAAAWCGSSPSSTFTPS ASSSTWCSASSSRSPAPTTPSSIPAAQAQRASCRPTSHSART APPPASSAAGAARPAAFSAAEGTPRRSIRCW
6798	3894	1696	STISWESLESWLNKATNPENRQEDWEYIIGFCDQINKLELG*VS ALWGLQRLGSLGRGTTMAKEGQPGSPRLSALECVLLVPQ/PQIA VRLLAHKIQSPQEWELQALTYLGDRVSEKVKTKVIELLYSWTM ALPEEAKIKDAYHMLKQIQVQSDPPIPVDRTLIPSPPRPKNP VFDDEEKSLLAKLLKSKNPDDQAEANKLIKSMVREDEARIQKV TKRLHTLEEVNNVRLLESEMLLHYSQEDSSDGDRELMKELFDQC ENKRRTFLKLASETFEDNNSLGDILQASDNLSRVINSYKTIIEG QVINGEVATLTLDPDEGNSQCSNQGTLLDLAELDTTNSLSSVLA PAPTTPSSGIPILPPPPQASGPPRSRSSSQAEATLGPSSTSNAL SWLDEELLCLGLADPAPNVPPKESAGNSQWHLQREQSDLDFFS PRPGTAACGASDAPLLQPSAPSSSSSQAPLPPFPFAPVVPASVP APSAGSSLFSTGVAPALAPKVEPAVPGHGLGNSALHHLDAL DQLEEEAKVTSGLVKPTTSPLIPTTTTPARPLLFFSTGPGSPLEFQ

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			PLSFQSGSGSPPKGPPELSLASHVPLESIKPSALPVTAYDKNGF RILFHFHFAKECPPGRPDVLVVVSMNLNAPLPVKSIIVLQAAVPKS MKVKLQPPSGTELSPFSPIQPPAAITQVMLLANPLKEKVLRLRYK LTFALGELQSTEVGEVDQFPFVEQWGNL
6799	3894	1696	STISWESLESWLNKATNPSNRQEDWBYITIGPCDQINKELEG*VS ALWGQLRGSGGLGRGTTMAKEGQPGSPRLSALECVLLVPQ\POIA VRLLAHKIQSPQEWALQALTYLGDRVSEKVKTKVIELLYSWTM ALPEEAKIKDAYHMLKRQGIQVSDPPIPVDRTLIPSPPPRFKNP VFDDERKSKLLAKLLKSKNPDLLQEAANKLIKSMVREDEARIQKV TKRLHTLEEVNNVRLLEMLLHYSQEDSSDGDRELMKELFDQC ENKRRTLFKLASETEDNDNSLGDILQASDNLRSRVINSYKTIIEG QVINGEVATLTLPDSEGNSSQCSNQGTLLDLAELDTTNSLSSVLA PAPTTPSSGIPILPPPQASGPPRSRSSQAETLGPSSSTNAL SWLDERLLCLGLADPAFNVPPKESAGNSQWHLQREQSDLDFFS PRPGTAACGASDAPLLQPSAPSSSSSQAPLPPFPFAPVVPASVP APSAGSSSLFSTGVAPALAPKVEPAVPGHHGLALGNSALHHLDAL DQLLEBAKVTSGLVKPTTSPILPTTTPEARLLPFSTGPGSPLFQ PLSFQSGSGSPPKGPPELSLASHVPLESIKPSALPVTAYDKNGF RILFHFHFAKECPPGRPDVLVVVSMNLNAPLPVKSIIVLQAAVPKS MKVKLQPPSGTELSPFSPIQPPAAITQVMLLANPLKEKVLRLRYK LTFALGELQSTEVGEVDQFPFVEQWGNL
6800	404	1646	RRSPSTGLSPVPQPSPLSDYSIPWSLLLSGTIAWATPGK*AG *PQAW*LGLAPALAFI/GLTRGRKQNKKEKMAEGSGDVEDDAGDC SGARYNDWSDDDDDSNESKSIWYPPWARIGTEAGTRARARARA RATRARRAVQKRASPNDDTVLSQELQKVLCLVEMSEKPYILE AALIALGNNAAYAFNRDIIRDLGGLPIVAKILNTRDPIVKEKAL IVLNNLSVNAENQRRLLKVYMNQVCDTITSRNLSSVQLAGRLRL TNMTVTNEYQHMLANSISDFRFLFSAGNEETKLQVLKLLNLAE NPAMTRELLRAQVPSSLG\SLFNKKENKEVILKLLVIFENINDN FKWEENEPTQNFQEGSLFFFLKEFQVCADKVLGIESHHDFLVK VKVGKFMALAEHMFPSQSE
6801	2	1755	SAEEFESQASVTMHDVDAESFEVLVDYCYTGRVSLSEANVERL YAASDMLQLEYVREACASFLARRDLTNTAILKFADAFGHRKL RSQAQSYIAQNFKQLSHMCSIREETLADLTALAQLLAVLRDLSLD VESEQTVCHVAVQWLEAAPKRGPSAAEVFKCVRWMHFTTEDQD YLEGLLTKPIVKKYCLDVIEGALQMRYGDLLYKSLVPVPSNSS /R*QQQLSCICSRKSTPETGYVCQGDGDLWTPQRSLS\RYDPY SGDIYTMPSPLTSAHTKTVTSSAVCVSPDHDIIYLAQPRKDLW VYKPAQNSWQQLADRLLCREGMDVAYLNGYIYILGGRDPIITGVK LKEVECYSVQRNQWALVAPVPHSFYSFELIVVQNYLYAVNSKRM LCYDP SHNMWLN CASLKRSDFEACVFENDEIYCICDIPVMKVYN PARGEWRRISNIPLDSETHNYQIVNHDQKLLITSTTPQWKKNR VTVVEYDTREDQWINIGTMLGLLQFDSGFICLCARVYPSCLEPG QSFITEEDDARSESTEWDLDFSELDSBSSSSSSFSDDVEWVQ VAPORNAQDQGSGL
6802	157	1341	ETFPFLFFLLSKTPGKTASMAHFVQGTSRMIAAESSTEHEKCAE PSTRKNLMNSLEQKIRCLEKQRKELEVNQWQDQFRSMKELYE RKVAELKTKLDAAERFLSTREKDPHORQRKDDRDQREDDRDLT RDRLQREEKEKERLNEELHELKEENKLLKGKNTLANKEKEHYEC EIKRLNKALQDALNICKSFSEDCLRKSRVEFCHEEMRTEMEVLK QQVQIYEEDFFKERSDRERLNQEKELQINETSQSLNRLNSQ IKACQMEKEKLEKQLKQMYCPPCNCGLVFHLQDPWVPTGPGAVQ KQREHFPDYQWYALDQLPPDVQHKAN/DWCLAPPPVCCQAG/PR TPGLK*SSCLWLPKC*NFRFILSKESPSVEVHTNRERQQATRER G
6803	1	2203	KLSGRPYRHMGLVGTSKLYDIRKTI FTFTPQFIDQQQFYALALDN



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			KMIVEMLRDLSYLCRWRMTGQPTTTFPISHSMLDEDEGTSINS SILAALRKMQDGYFGGARVQTKLSEFLTTSCTHLSFMDPGPE GKLYSEYDDNYDYLESGNWMNDYDSTSHARCDEVARVLDHLL AHTAPHPKLAPTSQKGGLDRFQAAVQTTCDLMSLVTKAKELHVQ NVHMYLPTKLFQASRPSFNLLDSPHPRQENQVPSVRVEIHLPRD QSCEVDFKALVLQKETSLSLQEQADILYMLYTMKGPDWNTLYN ERSATVRELLTELYGKVGIEIRHWGLIRYISGILRKVEALDEAC TDLSSHQKHLTVGLPPEPREKTISAPLPYEALTQLIDEASEGDM SISILTQFIMVYLAMVMRTQPGLFAMFRLRIGLIIQVMATELA HSLRCSAEEATEGLMNLSPSAMKNLLHHILSGKEFGVERK/SVR PTDSNVSPAISIHEIGAVGATKTERTGIMQLKSEIKQVEFRRLS ISAESQSPGTSMTSPSSGSPFSAIDQSSKDSRQGGQWRRRLDG ALNRVPGVGFYQKVKVLQKCHGLSVGGLVPSSTTREMTPEIK FSVHVES\VLNVLLRPEYRQLLVEAILVLTMLADIEIHSIGSII AVEKIVHIANDLFLQEQKTLGP\DDTMLAKDPASG\ICTLR\YD SAPSGRFGTMTYLS\RAA\ATYVQEFPL\HSICAMQ
6804	1	951	GSPGKKEEKAKNKESLCMENSSNSSEDEEBETKAKMTPTKKYN GLEEKRSRLRTTGFYSGFSEVAEKRIKLLNNSDERLQNSRAKDR KDVWSSIQQGWPKKTLKELFSDSDTEAAASPPHAEFEEGVAAES LQTVAAEESCSPSVELEKPPPVNVDSKPIEEKTVEVNDRAEFP SSGSNFGA*IPLEPYLHLNRLHQSL*QKGSRQSSVIVSEPLAPN QEEVRSIKSETDSTIEVDVAGELQDLQSERE*LASRF*QCCEL KQ**SARTRTS*KSLYRSEKSERCSGRRKFIKAEKKP*SNSGK QQKEGKRHK
6805	1539	206	RQPDLYFVGKSFVSVSESSLLSNOLPKFADGIKARNRNQNYL VPSPVLRIILDHTAFSTEKSADIVICDEECDSPEVSNQQTQEESE IEVHTAEDVPIAVEVHAISEDYDIETENNSSESLQDQTDDEPPA KLCKILDKSQAENVTAQQKWPILLRANSSGLYKCELFENSKYFS DLQHMILKHKRTDSNVCVCKESFSTNMLLIHAKLHEEDPYI CKYCDYKTVIFENLSQHIADTHFSDHLYWCEQCDVQFSSSELY LHFQEHSCDEQYLCQFCEHETNDPEDLHSHVNEHACKLELSD KYNNGEHGQYSLLSKITFDKCKNFFVCQVCGFRSRLHTNVNRHV AIEHTKIFPHVCDDCGKGFSSMLE\IAKHLNHLSEGIYLCQYW EYSTGQIEDLKIHLDFKHSADLPHKCSDCIMRFGNERBLISHLP VHETT
6806	272	3794	VALCFPNSDPVMFMDAFYGCCLLAEGLPVFIEVPLTRKDAGSQQV GFLGSCGVFLALTTDACQKGLPKAQTGEVAAFGKWPPLSWLVI DGKHLAKPKDWHPLAQDTGTGTAYIEYKTSKEGSTVGVTVSHA SLLAQCRALTQACGYSEAEITLNVLDKRDAGLWHGVLTSVMNR MHVVSVPYALMKANPLSWIQKVCYKARAALVKSMDHWSLLAQ RQQRDVLSLRLMLIVADGANPWSISSCDAFLNVFQSRGLRPEV ICPCASSPEALTVAIRPPDLGGPPPRKAVLSMNGLSYGVIRVD TEEKLSVLTVQDVGVMPGANVCVVKLEGTPYLCKTDEVGEICV SSSATGTAYYGLLGITKNVFEAVPVTGGAPIFDRPFTRTGLLG FIGPDHLVFIVGKLDGLMVTGVRHNDADVATALAVEPMKGFVY RGRIAVFSVTVLHDDRIVLVAEQRPDASEEDSFQWMSRVLQAI SIHQGVGYCLALVPANTLPKAPLGGIHISETKQRFLEGLTHPCN VLMCPHTCVTNLPKPRQKQPEVGPASMI VGNLVAGKRIASGR ELAHLSDSQARKFLFLADVLQWRAHTTDPHPLFLLLNAKGT STATCVQLHKRAERVAAALMEKGRLSVGDHVALVYPPGVDLIAA FYGCYCGCPVTVRPPHPQNLGTLPTVKMIVEVSKSACVLIT QAVTRLLRSKEAAAAVDIRTWPTILDTDDIPKKKIASVPRPSP DVLAYLDFSVSTTGILAGVKMSHAATSALCRSILQCELYPSRQ IAICLDPYCGLGFALWCLCSVYSGHQSVLVPPELESNVSLWLS AVSQYKARVTFCCYSVMEMCTKGLGAQTGLRMKGVNLS CVRTC MVVAEERP\RIALTQSFSKLFKDLGLPARAVSTTFGCRVNVAIC

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			<p>LQGTAGDPTTVYVDMRALRHDRVRLVERGSPHSLPLMESGKIL  PGVKVIIAHTETKGPLGDSHLGEI WVSSPHNATGYTIVYGEAL  HADHFSARLSFGDTQTIWARTGYLGLRRLTLDASGGRHDALY  VVGSLDETLELRGMRYHPIDIETSVIRAHRSIAECAVFTWNL  VVVVELDGLQDQDALDLVALVTNVVLEEHYLVVGVVIVDPGVIP  INSRGEKQRMHLRDGFLADQLDPIYVAYNM</p>
6807	1444	606	<p>VGHDTVHAMFTCFPKCLGFSPPVNVTVSPRSEESHTTTVSGGNG  SVFQAGPQLQALANLEARRGSIGALSSRDVSGLPVYAQSGEPR  RLTQAQVAAPFGENALEHSSDQDTWDSLRS PGFCSP LSSGGCAE  SLPPGGPGHAEAGHLGKVCDFHLNHQQFSP TSVLPTEVAAPPLE  KILSVDSVAVDCAYRTVPKPGPQPGPHGSLLTGCLRSLSGDLN  RPPCGMEVHSGQRELESVVAVGEAMA\LKFFPMGAMSYCLDRSR  FLFRLPMGLSCLQVQ</p>
6808	2063	737	<p>GVGSGAASALARSRLASRLSSRRRTRAPRSGAMQRLAMDRLML  SRELSTLYLEHQVRVGFSGVGLSLILGFSVAYAFYLLSSIAKK  PQLVTGGESFSRFLQDHCVPVTETTYPTVWCWEGRGQTLLRPF\  ITSKPPVQYRNELIKTADGGQISLDWEDNDNSTCYMDASTRTTI  LLPLGLTGTSKESYILHMIHLSEELGYRCVFNNGRVAGENLLT  PRTYCCANTEDLETVIHHVHSLYPSAPFLAAGVSMGMLLNNYL  GKIGSKTPLMAAATFSVGNWTFACSESLEKPLNWLLFNYYLTTC  LQSSVNHKRRHMFVKQVDMDHVMKAKSIREFDKRTFSVMFGYQTI  DDYYTDASPSRLKSVGIPVLCNLSVDDVFSPSHAIP IETAKQN  PNVALVLTSGGHIGFLEGIWPRQSTYMDRVFKQFVQAMVEHGH  ELS</p>
6809	939	65	<p>DYSGQTPVPTEHGMTLYTPAQTHPEQPGSEASTQPIAGTQTVPO  TDEAAQTDSQPLHPSDPTTEKQPKRLHVSNI PFRFRDPLRQMF  GQFGKILDVEIIFNERGSKGFGFVTETSSDADRAREKNGTIV  EGRKIEVNNATARVMTNKKTGNPYTNGWKLNPVVGAVYGPEFYA  VTGFPYPTTGTA VAYRG AHLRGRAVYNTFRAAPPPPIPTYG  AVVYQDGFYGA EI\LEATQPTD TLSPLQRRQPTATVTAESTQLP  TRTITPSGPRRPTALEPCETFHRLFLGP</p>
6810	939	65	<p>DYSGQTPVPTEHGMTLYTPAQTHPEQPGSEASTQPIAGTQTVPO  TDEAAQTDSQPLHPSDPTTEKQPKRLHVSNI PFRFRDPLRQMF  GQFGKILDVEIIFNERGSKGFGFVTETSSDADRAREKNGTIV  EGRKIEVNNATARVMTNKKTGNPYTNGWKLNPVVGAVYGPEFYA  VTGFPYPTTGTA VAYRG AHLRGRAVYNTFRAAPPPPIPTYG  AVVYQDGFYGA EI\LEATQPTD TLSPLQRRQPTATVTAESTQLP  TRTITPSGPRRPTALEPCETFHRLFLGP</p>
6811	1522	658	<p>DLVTVWSFVDCRVIASTHGH\KSWVSVAFDPPYTTSVEEGDPME  FSGSDEDFQDLLHFGRDRADSTQCRLSRRNSTDSRPVSVTYRFG  SVGQDTQLCLWDLTEDILFPHQPLSRARTHINVMNATSPAGSN  GNSVTTFGNSVPPPLPRSNLPHSAVSNAGSKSSVMDGAIASGV  SKFATLSLHDKRERHHEKDKRNHSMGHISSEKSSDKLNLVTKTK  TDPAKTLGTPLCPRMEDVPLLEPLICKIAHERLTVLIFLEDCCI  VTACQEGFICTWGRPGKVVSFNP</p>
6812	4001	1682	<p>EDAVFSLDLSTIIQGTWFLNGEELKSNEPEQCQVEPGALRYRIEQ  KGLQHLRLILHAVKHQDSGALVGFCSPGVQDSAAALTIQESPVHIL  SPQDKVSLTFTTSERVVLTCELSRVDFPATWYKDGQKVEBSELL  VVKMDGRKHRLILPEAKVQDSGEFECRTEGVSAFFGVTVQDPPV  HIVDPREHVVFVAITSECVMACEV\DR\EDAPVRWYKDGQVE  ESDFVVLNEGPHRRLLVLPATQPSDGGFQCVAGDECAVFTVTI  TDVSSWIVYPSGKVYVAAVRLERUVLTCELCRPWAEVRWTKDGE  EVVESPALLLQKEDTVRRLVLPVAVQLEDSCGYLCEIDDESASF  VTVTBPPVRRIIYPRDEVTLIAVLTCEVVLMLCELSREDAPVRWYK  DGLVEESEALVLERDGPRLVLPAAQPEDGGEFVCAGDDSA  FFTIVTTEPPVQFLALETTPSPLCVAPGEPVVLSCELSRAGAPV</p>

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			VSHNGRPVQEGEGLELHAEGERRVLCIQAGPAHAGLYTCQSG AAPGAPSLSTFTVQVAEPPVRVVAPEAAQTRVRSTPGDLELVVH LSGPGGPVVRWYKDGRLASQGRVQLEQAGARQVLRVQGARSGDA GEYLCDAPQDSRIFLVSVEEPLLVKLVSDDLPLTVHEGDDATFR CEVSPDADVTWLRNGAVVTPGPQRQSCCSYGGCRMCGQRKART CVSKWRQAEWVQRGPCAGCEVGSPCPTTLACFWPRMGTSTASSS MVSYPWTPRPTAARATTIAPWPGSA
6813	9	836	SSTQQRPGVPAGPRPLDGYLGVDHKLPMHCRDCALVTSSGHL LHSRQGSQIDQTECVIRMNDAPTRGYGRDVGNRTSLRVIAHSSI QRILNRHDLNLSVQGTVFIFWGPSSYMRRDGKGQVYNNLHLLS QVLPRLKAFMITRHKMLQFDELFKQETGQ\NRKISNTWLSTGWF TMTIALLELDRINVYGMGPPDFCRDPNHFSVPYHYEFPFGPDEC TMYLSHERGRKGSHHRFITEKRVFKNWARTFNIHFFQPDWKPE LAINHPENKPVF
6814	3	737	KFRREQAN/ARERNRMHGLNDALDNLKVVPCYSTQKLSKIET LRLAKNYIWLSEILRIGKRPDLLTFVQNLCKGLSQPTTNLVAG CLQLNARSFLMGQGGAAHHTRSPYSTFYPPYHSPELTTPPGHG TLDNSKSMKPYNYCSAYESFYESTSPECASPQFEGPLSPPPINY NGIFSLKQEEITLDYGNVYGMHYCAVPPRGPPLGQGMFRLPTD SHFPYDLHLRSQSLTMQDELNAVFHN
6815	906	553	QGLDPASQTKVVELLKDGSGRRGDRSSRDMMAGGAGPRSESDLE DVGPTAEWNGDGSGLRRSGSFGKLRDALRRSSEMLVKKLQGGT PQEPNPRMKRASSLNFLNKSVEEPTQPGG
6816	1	803	NLLKTHKF\LLGQDEDSLHVSFVQMGNYQBYLKTASPLREID PDQPKRLHTFGNPPFKQDKKGMIDEADEFVAGPQNKVKRGPEN SPMSSKRRRSMSSLLLRKPQTPPTVTNHVGGKGPSPASWFPSPYN LIKPTLVHTDATIIHDGHEEKMENQGITPDGFLSKSAPSELINM TGDLMPPNQVDLSDDFTSLSKDGLIQKPGSNFVGGAKNCCLS VDDQKDPVASTLGAMPNTLQITPMAOGINADIKHQLMKEVRKF GRSK
6817	172	3457	LGMDSFKTGNGLFVIGPGTDIGISSLHMVGLGKNFDSAKVPS DEYCPACKEKGKALKKTYRISFQESIIFLCBDLQCIYPLGSKSL NNLISPDLLECHTTPHKPQKRKSLESSYKDSLLANSKKTNYIA IDGGKVLNSKHNGEVYDETSNLPDSSGQQNPRTADSLERNEI LEADTVDMATTKDPATVDVSGTGRPSQPNEGCTSKLEMPLESKC TSFPQALCVQWKNAYALCWLDCILSALVHSEELKNTVTGLCSKE ESIFWRLLTKNQANTLLYTSQLSGVKDGDKKLTSEIFAET CLNEVRDEIFISLQPLRCTLGDMESPVFAPPLLLKLETHIEKL FLYSFSDFECSQCGHQYQNRHMKSLVTFNTVIPEWHPLNAAHF GPCNNCNSKSQIRKMVLEKVSPIFMLHFVEGLPQNDLQHYAFHF EGCLYQITSVIQYRANNHFITWILDADGSWLECDLKGPCSERH KKFEVPASEIHIVIWERKISQVTDKEAACLELKKTNQDHALSNE KPVSLTSCSVGDAASAETASVTHPKDISVAERTLSODTAVTHGD HLLSGPKGLVDNIPLTLEETIQKTASVSQNLNSEAFL\LENKPV AENTGILKTNLTLLSQESLMASVSAPCNEKLIQDQFVDSIFPSQ VVNTNMQSVQLNTEDTVNTKSVNNTDATGLIQGVKSVEIEKDAQ LKQFLTPKTEQLKPERVTSQVSNLKKKETADSQTTTSKSLQNG SLKENQKKPFVGSWVKGLISRGASFMPLCVSAHNRNTITDLQPS VKGVNFGGFKTKGINQKASHVSKKARKSASKPPPI SKPPAGPP SSNGTAAPHAHAASEVLEKSGSTSCGAQLNHSSYNGNIGSSANH EDLVBGGIHKRLRLKRLKLAKEKKLAALMSSPQSRTVRSLENLE QVPQDGSPNDCESEDLLNELPYPIDIANESACTTVPGVSLYSS QTHEEILAEILLSPTPVSTELSENGEGDFRYLGMGDSHIPPPVPS EFNDVSQNTHLRQDHNYCSPTKKNPCEVQPDSLTNACVRTLNL ESPMKTDIFDEFFSSALNALANDTLDLPHFDEYLFENY
6818	2	240	RGFDKVLWT/LSCAVK\CVQFSRISPDGEEGYPGELKVWVTTYTL

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			DGGE/LHS/ATTEHKP/VQATPVNLT/TILTSTWQARLPQI
6819	1	961	GIPCTEMGNFDNANVTGEIEFAIHYCFKTHSLEICIKACKNLAY GEEKKKKCNPYVKTYLLPDRSSQGRKKTGVQNTVDPTFQSTLK YQVAPAQLVTRQLQVSVWHLGTLARRVFLGEVVIPLATWDFEDS TTQSFWRHPLRAKADKYEDSVQSNGETVRAKLVLPSPRKLQ EAQEGTDQPSLHGQCLVVLGAKNLPVRPDGTLNSFVKGCLTLP DQQKLRKSPVLRKQACQWKHSFVFSGVTPAQLRQSSLELTWV DQALFGMNDRLGCT\RLGSKGDTAVGGDACSSQSKLQWQKVLSS PNLWTDMTLVH
6820	1014	340	GDMVYIVGHVPPGFFFEKTQNKAWFREGFNEKYLKVVRRKHHRVIA GQFFGHHTDSFRMLYDDAGVPIISAMFITPGVTPWKTTLPGVVN GANNPAIRVFEYDRATLSLKDMMVTYFMNLSQANAQCTPRWELEY QLTEAYGVPDASAHSMHTVLDRIAGDQSTLQRYVYVNSVYSAG VCDEACSMQHVCMRQVDIDAYTTCLYASGTTVPVQLPLLLMAL LGLCT
6821	1088	518	EFDIYR/EVGGEFVFPVTRDDSSNGFPRTQHGPSPTVHPIQSPQN RFCVLTLDPETLPAIATTLIDVLFYSHSTPKEAASSSPEPSSIT FFAFSLIEGYI\SIVMDAETQKKFPSDLLTSSSGELWRMVRIG GQPLGFDECGIVAQIAGPLAAADISAYYISTFNFHDHALVPEDGI GSVIEVLQRRQEGLAS
6822	1088	518	EFDIYR/EVGGEFVFPVTRDDSSNGFPRTQHGPSPTVHPIQSPQN RFCVLTLDPETLPAIATTLIDVLFYSHSTPKEAASSSPEPSSIT FFAFSLIEGYI\SIVMDAETQKKFPSDLLTSSSGELWRMVRIG GQPLGFDECGIVAQIAGPLAAADISAYYISTFNFHDHALVPEDGI GSVIEVLQRRQEGLAS
6823	654	221	FPKLLSRWARMGHGDRIV\LSDLNFPGLLHLPVVGWPRSVQTAC GIPQLLEAVLKLPLDITYVESPAAVMELVPSDKERGLQTPVWTE YESILRRAGCVRALAKIERFEFYERAKKAFVAVATGETALYGNL ILRKGVLALNPLL
6824	858	104	LLLAQRWGWG\CCFFSLAVSVKMNVLLFAPGLLFLLLTQFGFRG ALPKLIGICAGLQVVLGLPFLLENPSGYLSRSFDLGRQFLFHWTV NWRFLPEALFLHRAFLALHTALLLFLALCRWHRTGESILS LLRDPKSRKVPPQPLTPNQIVSTLFTSNFIGICFSRSLHYQFVY WYFHTLPYLLWAMPARWLTHLLRLVLGLIELSWNTYPTSSCSS AALHICHAVILLQLWLGPPQFPKSTQHSKKAH
6825	3	1173	SSGEFGLQASDIMWTISDTGWILITLCSLMEPWALGACTFVHLL PKFDFVLKTLSSYPIKSMMGAPIVYRMLLQQLSSYKFPHLQ NCLAGGESLLETLENWRAQTGLDIREFYGTETGLTCMVSKTM KIKPGYMGTAASCYDVQIIDDKGNVLPPTGEGDIGIRVKPIRPI GIFSGYVDNPDKTAANIRGDFWLLGDRGIKDEGDYFQFMGRADD IINSSGYRIGPSEVENALMEHPAVVETAVISSPDVVRGEVVKAF VILALQFLSHDPEQLTKELQOHVKSVTAPYKYPKRIEFVLNLPK TVTGKIORA\KLRDKWKMSGKAFCAVRHLRDIHLDSPILLSLSF PFGPLALPMDGYGDSLWEEHEYKFCALVISTKLYHVRC
6826	2304	954	LKTESFKPW/VNIALAFHLLGERASPNSFWQPYIQTLPREYDTP LYFEEDEVRYLQSTQAIHDVFSQYKNTARQYAYFYKVIQTHPHA NKLPLKDSFTYEDYRWAVSSVMTRQNQIPTEDGSRVTALIPW DMCNHTNGLITTYNLEDDRCCEVALQDFRAGEQIYIFYGTRSN AEFVIHSGFFFDNNSHDRVKIKLGVSKSDRLYAMKAELARAGI PTSSVFALHFTPEPISAQLLAFLRVFCMTSEELKEHLLGDS RIFTLGNSEFPVSWDNEVKLWTFLEDRAQLLLKTYKTTEEDKS VLKNHDLVRAKMAIKLRGKEKEILEKAVKSAAVNREYRQOME EKAPLPKYBESNLGLLESSVGDRLPLVLRNLEEEAGVQDALNI REAIKAKATENGLVNGENSIPNGTRSENEESLNQESKRAVEDAK GSSSDSTAGVKE

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6827	1	779	SSVVEFGLSVLGGFLFLFVLENMMLGLLRHRLRPRCCRRKRRNL ETRNLDPENGSGMALQPLQAPEPGAQGGQREKNSQHPALAPP HQGHSHGHQGGTDITWMVLLGDGLHNLTDGLAIGAAFSDGFSSG LSTTLAVFCHLPHLPHLGDFAFMIQSGLSFRLLLSLVSGALGL GGAVLGVGLSLGPVPLTPWVFGVTAGVFLYVALVDMPLALFPSS GAPAYA\HVLQGLGLLLGGCLMLAITLLEERLLPVTTEG
6828	3	1654	KSQHG/WILQLMHSCKEGYVKDLKGNPGLHRAMLDDLNGTRPSE LGHLSQTASLKRGSFQSGRDDTWRYKTPHRVAFVEKLTKLVL S QLPNFWKLWISYVNGSLFSETAEKSGQIERSKNVRQRQNDFFKM IQEVMHSLVKLTRGALLPLSIRDGEAKQYGGWEVKCELSSGQWLA HAIQTVRLTHESLTALEIPNDLLQTIQDLILDLRVRCVMATLQH TAEEIKRLAEKEDWIVDNEGLTSLPCQPEQCIVCSLQSLKGVLE CKPGEASVFQPKTQEVCCQLSINIMQVFIYCLEQLSTKPDADI DTTHLSVDVSSPDLFGSIHEDFSLTSEQRLLIVLSNCCYLERHT FLNIAEHFEKHNFGQIEKITQVSMASLKELDQRLFENYIELKAD PIVGSLPEGTIYAGYFDWKDCLPPTGVRNYLKEALVNI IAVHAEV FTISKELVPRVLSKVIEAVSEELSRMLMOCVSSFSKNGALQARLE ICALRDTVAVYLTPESSKSSFKQALEALPQLSSGADKKLLEELN KFKSSMHLQLTCTFQAASSTMMKT
6829	1	782	MRMEAGEAAPAGAGGAAAGGKWWRLNVGGTVFLTTRQTLCLR EQKSLFSLRQCQEEELQSDRDETAYLIDRDPTYFGPIILNFLRHG KLVLDKDMAEEGVLEAEAFYNIQPLIRIIRDRMEKDYTVTQVP PKHVYRVLQCQEEELTQMVSTMSDGWRFEQLVNISSYNYGSED QAEFLCVVSKELHSTPNGLSSSESSRKTSTEEQLEEQQQEVEV BEVEVQVQVEADAQEK/CCYKPEAPGCEAPDHLQGLGVPI
6830	1	939	MBPGSVENLSIVYRSRDFLVVNKHWDVRIKAWRETLTLQKQL RYRFPELADPDTCYCFRCHQLDFSTSGALCVALNKAAGSAYR CFKERRVTKAYLALLRGHIQESRVTISHAIGRNSTEGRAHTMCI BSGQGCENPKPSLTDLVLEHIGLYAGDPVSKVLLKPLTGRTHQL RV\HCSALGHPVVGDLTYGEVSGREDRPFMMMLHAFYLRIPDTT ECVEVCTPDPFLPSLDACWSPHTLLQSLDQLVQALRATPDPDPE DRGPRPGSPSALLPGPGRPPPPPTKPPETEAQRGPCQLQWLSWT LEPDS
6831	3	1087	SLFFGSSTPDNKVAEQEDLETQSPSPVEKAVTVIDPEGTIPTNF NVAEKPADHSLSEVKLKTADPRGTLVKSQDQGNVKEKSMILSN VEDLQPKFISEVSREDYGGKKEISGDSEEMNINSVVTADGENL EIQSYSLIGELVMEEAKTIVPEHVTDSKRVQKPAIAPPSKWN I SIFKEEPRSDQKQKSLLSFDVVDKVPQQPKSASSNFASKNITKE SEKPESIILPVEESKGLIDFSEDRLKKEMQNPTSLKISEEETK LRSVSPTTEKDNLENR\SYTL\AEKKVLAEKQNSV\APLELRDS NEIGKTQITLGSRTTELKESKADAMPQHIFYQNEDYNERPKITVG SEKEKDEKKKK
6832	1809	412	MGSGLISGPFQDNGEALKEPERAQEHSLPNFAGGQHFFFEYLLV VSLKKRSEDDYEPIITYQPPKRENLLRGQEEERLLKAIPLF CFPDGNWASLTYPRETFSFVLTVNVDGSRKIGYCRLLPAGPG PRLPKVYCIISICIGCFGLFSKILDEVEKRHQISMAVIYPFMQGL REAAFPAPGKTVTLKSFIPDSGTEFISLTRPLDLSLHVDFFSL LHCLSFEEQILQIFASAVLERKIIFLAEGSLTSLQCIHAAALY PFSWAHTYIFVVPESLLATVCCPTPFMVGVQMRFQQEVMDS PME EVLLVNLCEGTFMSVVGDEKDILPPKLQDDILDSLQGINELKT AEQINEHVSQPFVQFFVKIVGHYASYIKREANGQGHFQERSFCK ALTSKTNRRFVKKFVKTLQSLFQIAEAKSKNPPAGYFQOKILE YEEQKKQ/TETKGKNCEIRAVVNKND
6833	1	1129	PLMTLSQCGGTPGHGSHGGHGHGHLFGKPRVKSTRPGSSDIN VAPGEQGPQDEETNTLVANTSNNGLKLDPADPENPRSGDTVEV QVNGNLVREPDMLEEDRAGQLNMRGVFLHVLGDALGSVIVVV

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			NALVFYFSWKGCGSEGDFCVNCFDPDCKAFVETINSTHASVVEA GPCWVLYLDPTLCVVMVCILLYTTYPLLKESALILLQTVPKQID IRNLIKELRNVEGVVEVHELHVWQLAGSRIIATAHIKCEDPTSY MEVAKTIKDVFNHGIHATTIQPEFASVSGSKSSVVFCELCARTQ CALKQCCGTLPOAPSGKDAEKTPAVSI SCLLSNNLEKKPRRTK AENIPA\VVIEIKN\IPNK\QPESLL
6834	78	1151	AGOERPAPIWRLLWLP TSPSVSRKAEP AHIPINR*GA*E*RGSLP LCGSSASAYGWH*RLTPWSPGGS*HM*SSKAPVTQAREVLVAGP CSKLVLSGARGIVGTTVQVLVEAQQLLLFTGVWGLNLRAGEE SRAL*LIBEVTQVRDAHLGNNAVVGCAQCLSQCVGSALAKALLE AAAAVRDCKEVLTVSGDKQQAQEVSVRL*VRDVCVEEAGCVFEGQ AHGRPGLALAKGRGGTNEVEEQVQVDGVQKLVL SAHECHELVAG QQDGEDQAARTRLQAGAHSAVHGRGQQAPCRPHQEAAGVSCHE LQQVVGDAL*ARE*APQII VLLLEL DVAQLRTGKKA*DLVVDVE QLLRQL
6835	1	834	GTPAADR\EASLELIKLDISRTFPNLCTFQQGGPYHDMHLSILG AYTCYRPDVG YVQGM S FIAAVLILNLD TADAFIAFSNLLNKPCQ MAFFRV D HGLMLTYFAAFEVFFEENLPKLF AHFKNNLTPIYL IDWIF TLYSKSLPLDLACRIWDVFCRDGEEFLFR TALGILKLFE DILT KMDFIHMAQFLTRLPEDLP AEELFASIATIQMSRNKKWA QVL TALQKDSREMREGKSV PPTLR LQREFALGTNQSPMPRPLCC FRLTPGQPRRTDAL
6836	1	850	MSCGRPPEDV DGMITLKV\DNLT YRTSPESLRRVFEKYGRVGDV YIPREHTKAPRGFAFVRFHDRRDAQDAEAMDGAE L DGRELRV QVARYGRRDLPRSRQRRHAGPEAA/RYGRRSRSYGRRSRSPR RRHRSRSGPSCSRSRSRRYGSRYSRSPYSRSPYSRYSRS PYSRYSRYRESRYGGSHYSSSGYSNRYSRYSRSHSRSHSGSSTS SRASSTSKSSSARRSKSSSVSRSRSRSSSMTRSPPRVSKRKS KSRSRSKRPPKSP EEBGQMS
6837	1	1369	TDGAAVAGNPGSDYFPGGTAP/GGPRTRP\SGTSSSGSKASGP PNPPAQGDGTSLSPNYLTLESTSGNDGKPVSGGGGGRGRKRKDS GHVSPGTFFFDKYSAAPDSGGAPGVSPGQQQASGA AVGSSAGET RGAPT PHEKALTSPSWCKGAELL LLDQPD LIGSLDGGAKSDSS PNVGEFASDEVSTSYANEDEVSSSDNPQALVKASRSP LVTGSP KLPPRGV GAGEHGKAPPPALGIGIMSNSTSTPDSYGGGGGPGH PGTPGLEQV R TPTSSSGAPPDEIHPLEILQAQIQLQRQF S I S EDQPLGLKGGKGECAVGASGAQNGDSELGSCCSEAVKSA M S T I DLDSLMAEHSAAWYMPADKALVDSADDDKTLAPWEKAKPNPNS KEAHDLPANKASASQPGSHLQCLSVHCTDDVGD AKARASVPTWR SLHSDISNRFGTFVAALT
6838	16	499	LTDTPPP KTHMIHHSISDYKATLRCWALGFYPMEITLTWQQDEE DQTRDMELVETRPA GDGT FQKWA AVVVP SGEE/Q/RYMCHVQHE CLPEPLTLRWEQSSQPTIPIVGIVAGLVLLGAVVTGAVVSAVMC RKKNSDRVSYSEAASSDHAQGS DVS L TACKV
6839	1	1195	AAPAGGGPDPEALSAPFGRHLSGLSWPQVKRLDALLSEPIPIHG RGNFPTLSVQPRQIRAGGPQHPCGAG\IHVHRVRLHGSAAASHVL HPESGLGYKDLDLVFRMDLRSEAS FQ LTKAVVLACLDFLPAGV SRAKITPLTLKEAYVQKLVKVTDSDRWSLISLNSKSGKNVELK FVDSVRRQFEFSIDSFQIILDSLLFGQCSSTPMSEAFHPTVTG ESLYGDFTEALEHLRHRVIATRSPEEIRGGGLLYCHLLVRGFR PRPSTDVRLAQRYMCSRFFIDFPDLVEQRRTLERYLEAHFGGAD AARRYACLVTIHRVNVNESTVCLMNHERRQTLDLIAALALQALAE QGPAATAALAWRPPGT DGVVPATVNYVTPVQPLLAHAYPTWLP CN
6840	4254	2061	ELQGD FSVDPVPKMAWCENSICVGFKR DYYLIRVDGKGS IKEL FPTGKQLEPLVAPLADGKVAVGQDDLTVVLNNEBGICTQKCALNW

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			TDIPVAMEHQPPYIIAIVLPRVVEIRTFEPRLLVQSIELQRPRFT TSGGSNIIVASNHFWRLIPVPMATQIQQLQDKQFELALQLA EMKDDSDSEKQQIHHIKNIYAFNLCQKRFDESMQVFAKLGTD PTHVMGLYPDLFTDYRKQLQYPNPLEVLSGAELEKAHLALIDY LTQKRSQLVKKLNDSDHQSSTSPLMECTPTIKSKKKLLQIIDTT LLKCYLHTNVALVAPLLRLNNHCHIESEHVLKKAHKYSELII LYEKKGLHEKALQVLVDQSKKANSPLKGHERTVQYLQHLGTENL HLIFSYSVWVLRDFPEDGLKIFTEDLEPEVESLPDRVLGFLIEN FKGLAIPYLEHIHVVWEETGSRFHNCLIQLYCEKVQGLMKEYLL SFPAGKTPVPAGEEBEGELGEYRQKLLMFLEISSYDPPGRLICDF PEDGLLEBRALLGRMGKHEQALFIYVHILKDTRMAREYCHKHY DRNKDGNKDVYLSLLRMYLSPPSIHCGLPIKLELELEPKANLQAA LQVLELHHSKLDTTKALNLLPANTQINDIRIFLEKVLLENAQKK RFNQVLKNNLLHAEFLRV\QEERILHQQVKCIITEKVCVMVCKKK IGNSAFARYPNGVVVHYFCS\KEVNPADT
6841	1	3206	TPSTTGKTSNTPTSSVPSAAVTPLNESLQPLGDYGVGSKNSKRA REKDRSRNMEVQVTQEMRNVSIGMGSSDEWSDVQDIIDSTPELD MCPETRLDRTGSSPTQGIIVNKAFGINTDSLYHELSTAGSEVIGD VDEGADLLGEFSGMGKEVGNLLLENSQLLETKNALNVVKNDLIA KVDQLSGEQEVLGRGELEAAKQAKVLENRIKELEELKRVKSEA IARREPKEEAEDVSSYLCTESDKIPMAQRRTFVEMARVLM RNQYKERLMELQEAVRWTEIRASREHPSVQEKKKSTIWFQFSR LFSSSSSPPAKRPYPSGNIHYKSPPTAGFSQRRNHAMCPIISAG SRPLEFFDDDDCTSSARREQREYRQVREHVRNDGRLQACGW SLPAKYQLSPNGGQEDTRMKNVPVPVYCRPLVEKDPTMKLWCA AGVNLSCWRPNEDDAGNGVKPAPGRDPLTCDREGDGEPKSAHTS PEKKKAKELPEMDATSSRVWILTSTLTTSKVVIIDANQPGTVVD QFTVCNAHVLCISSIPAASDSYDPPGEMFLDSVDNPEDPGADGV LAGITLVGCATRCNVFRSNCSSRGDTPVLDKGQGEVATIANGKV NPSQSTEEATEATEVDPGPGSEPETATLRPGPLTEHVFTDPAPT PSSGPQPGSENGPEPSSSTRPEPEPSGDPTGAGSSAAPTMMWLG AQNGWLYVHSAVANWKKCLHSIKLKDSVLSLVHVKGRLVALAD GTLAIFHRGEDGQWLSNYHLMDLGHPHHSIRCMVAVVYDRWCC YKKNVHVIQPKTMQIEKSFDAHPRESQVRQLAWIGDGVWVSIR LDSTLRLYHAHATHQLQDVIDEPVVSMLGTGKLGFSFVRITAL LVAGSRLWVGTVNGVVISIPLTETVVLHRCQ\LLG\LRANKTSP TSSEG\ARPGG\IHHVYG\DDSSDRAARSFIPYCSMAQAQLCFH GHRDAVKFFVSVPGNVLATLNGSVLDSPAEGPGPAAPASEVEGQ KLRNVLVLSGGEGYIDFRIGDGEDDETEEGAGDMSQVKVLSKA ERSHIIWQVSYTPE
6842	3	926	RCQQLSATILTDHQYLERTPLCAILKQKAPQQYRIRAKLRSYKP RRLFQSVKLHCPKCHLLQEVPHGEDLDIIFQDGATKTPDVKLQN TSLYDSKIWTTKNQGRKVAHVFKVNNGILPLSNECLLLIEGGT LSEICKLSNKFNSVIPVRSGHEDLELLDLSAPFLIQGTVHHYGC KQWST*RSIQNLNSLVDKTSWIPSSVAELGIVPLQYVFMTP LDDGTGVLEAYLMDSDKFFQIPASEVLMDDDLQKSVDMIMDMFC PPGIKIDAYFWLECFIKSYNVTNGTDNQCICYQIFDTTVAEDVI
6843	2	851	NHRKVLGAKRYECNECGKSFAYTSSLIKHRIHTGERPYECSE CGRSFAENSSLIKHLRVHTGERPYECVECGKSFRRSSLLQHQ VHTRERPYECSECGKSFSLRSNLIHHQVRHTGERHECGQCGKS SRKSSLIHHLRVHTGERPYECSDCGKSFENSSLIKHLRVHTGE RPYECIDCGKSFRRSSFRHQRVHTGMRPYK*SKFWKFCPCPGF LLLQQRVHTGSRCECDKWIFFS*NASFFT*KSAPTEBVPFE CNECEKAFSPLSLVTTTIFT
6844	244	642	EHQLAGFELRKQTQSMSLGTTREKTRDRVKSTAYLSPQLEEDVY QYDVKSEIYSFGIVLWEIATGDIFFQGCNSEKIRKLAVAKRQOE

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			PLGEDCPSELREIIDECAHDPSPVRPSVDEILKKLSTFSK*CIK I
6845	3	1519	VAVRDECYWRHVFWDQDLWMLLFILMCHPETARARLEYRIRTL D GALENAQNLGYQCAKFAWESADSGLEVCPEDIYGVQEVHNGAV GLAFELYHHTTQDLQLFREAGGWDVVRVAEAFWCSRVEWSPREE KYHLRGVMS PDEYHSGVNNVSVYTNVLVQNSLRFAAALAQDLGLP IPSQWLAVADKIKVPFDVEQNFHPEFDGYEPGEVVKQADVLLG YPVPFSLSPDVRKNLEIYEAVTSPQGPAMTWSMFAVGWMEIKD AVRARGLLDRSFANMAEPFKVVTENADGSGAVNFLTGMGGFLQA VVFSGTGRVTRAGVTFDPVCLSGISRVSVSGIFYQGNKLNFSF SEDSVTVEVTARAGWPAPHLEAELWPSQSRLSLPGHKVSPFRS AGRIQMSPPKLPFGSSSSSEFPGRFTSDVRDPLQSPWVTLGSSSP TESLTVDPAE*SGTGASETSLGPSLWPRLHPPLLGTLLACHPS PAARLSGKVHAAWPEFKAFCL
6846	213	1258	LYFLKTK*LNRLAHP*YENEKLTCLRNTIMEQVTRTEESARG IIFTKTROSAYALSQWITENEKFAEYGVKAHHLIGAGHSSEFKP MTQNEQKQVVISKFRTGKINLLIATTVAEEGLDIKECNIVIRYGL VTNEIAMVQARGRARADESTYVLVAHSGSGVIEHETVNDFREKM MYKAIHCVQNMKPEEYAHKILELQMQSIMEKKMKTKRNIKHYK NNPSLITFLCKNCVSLACSGEDIHVEKMHVNMTPFKELYIV RENKTLQKKCADYQINGEIIICKCGQAWGTMVHKGLDLPCLKIR NFVVVFKNNSTKKQYKKWVLEPITFPNLDYSECCLESDED
6847	1450	348	SMCWNSDRLEMLIDLALILYPPSYVPYTGHLSDSLSRKYCLT WFEDALNGVL*RAEAIQPHCVNAGDRMEKFRQKYWNKLQTLRQ PFAYGTLTVRSLDTRHCLNEFNFPDPYKVKQRENGVALRCF PGVVRSLDALGWEERQALVKGLLAGNVDFWGAQAVSAVLES DP YFGFEAKRKLQERPWLVDSYSEWLQRLKGP PHKCALIFADNSG IDIILGVFPFVRELLRGTEVILACNSGPALNDVTHSESLIVAE RIAGMDPVVHSALREERLLLVQTGSSSPCLDLSRLDKGLAALVR ERGADLVVIEGMGRAVHTNYHAALRCESLKLAVIKNAWLAERLG GRLFSVIFKYEVPAAE
6848	19	16	AMWWSLGDGIRNIVLSNPKKRNTLSLAMLKSLQSDILHDADSND LKVIIISAEGPVFSSGHDLKELTEQGRDYHAEVFQTCCKVMMH IRNHPVPVIAVNVGLATAAGCQLVASCDIAVASDKSSFATPGVN VCLFCSTPGVALARAVPRKVALEMLFTGEPISAEALHGLLNK VVEAELEQETMRIARKIASLSRPVVS LGKATFYKQLPD LGTA YYLTSQAMVDNLALRDGQEGITAFLOKRPVWSHEPV*VEH
6849	70	821	SLGVDGSCLEQGS PAPERPTDTSP*PVGWATQQEDLYHQSYEC VCVLFASVPDFKEFYSESNINHEGLECLRLNEI IADFEELLSK PKFSGVEKIKTIGSTYMAATGLNATSGQDAQDAERSCSHLGMT VEFAVALGSKLDVINKHSFNNFRLRVGLNHGPVAVGVIQAQKPQ YDIWNTVNVASRMESTGVLGKIQTETAWALQSLGYTCYSRG VIKVKGGQLCTYFLNTDLTRTGPPSATLG
6850	2	1235	ARGLNHEWTFEKLQHISRNAQDKQELHLEMLSGVPDAVFDLTD LDVLKLELIPEAKIPAKISQMTNLQELHLCHCPAKVEQTAFSL RDHLRCLHVKFTDVAEIPAWVYLLKNLRELYLIGNLNSENNMI GLESRLRELRLKILHVKSNTLKVPSNITDVAPHLTKLVIHNDGT KLLVLNSLKKMMNVAELELQNCLELIPHAIFSLSNLQELDLKS NNIRTIEEIIISFQHLKRLTCLKLNHNKIVITIPPSITHVKNLES YFSNNKLES LPVAVFSLQKLRCLDVS YNNISMIP I EIGLLQNLQ HLHITGNKVDILPKQLFKCIKRLTLNLGQNCITSLPEKVGQLSQ LTQLELKGNCCLDRPQLGQCRMLKKSGLVVEDHLFDITLPLEVX EALNQDINTFPFANGT
6851	1765	660	VSAQVSAREGENCLGWNADSSQESYKSLLEEADCYPPSLLTLD LRDLFNQVEQGPLLS CPKAGTDL SMGRAREVGMMAAGLMIGAGA CYCVYKLTIGRDDSEKLEBEGEEWDDQDLDEEPEDIWDFET



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			MARPWTEGDGDWTEPGAPGGTDRPSGGGKANRAHPKQRPFFYE HKNTWSAQNCCKNGSCVLDLSKCLFIQGLLFAEPKDGFPFSQD INSHLASLSMARNTSPTPDPTVREALCAPDNLNASIESQGIKM YINEVCRETVSRCNSFLQQAGLNLLISMTVINNMLAKSASDLK FPLISEGSGCAKVQVLKPLMGLSEKPVLAGELVGAQMLFSEMSL FIRNGNREILLETPAP
6852	1	407	RTRGEETIYANFIKHNDGKNIFYAARTPATLFAVMFAMYIISGLT GFIGLNSIAVLCNLVMGLALIFLCTWAYVKYSGEFREIGTVIDQ IAETLWEQVLKPLGDNLMEEINIRQSVTNSIKAGLTDQVSHHARL KTD
6853	3	469	GDSCAVCIELYKPNLDLVRILTCNHI FHKTCVDPWLEHRTCPMC KCDILKALGIEVDVEDGVSLSQVPVSNEIFNSASSHEEDNRSET ASSGYASVQGTYEPPLEEHVQSTNESLQLVNHEANSVAVDVIPH VDNPTFEEDETPNQETAVERIKS
6854	1148	585	HESYIGTFDPGELCVCAAIQWLQDNASASYFLNRKLIVYEPSTQAK PVKNTFLRMWIYSHHIYQDLRKKILDVDGKRDLVTGFCMTGKPG IICVEGFKEHCEEFWHTIRYPNWKHISCKHAESVETEGNGEDLR LFHSFEELLLLEAHGDYGLRNDYHMLNGQFLFLKHKHSEHVFCI LFGIESKSSDS
6855	1913	1148	GRVGGRRVGRICSPLSGANEYIASTDTLKTEEVLLFTDQTDLLAK BEPTSLFORDSETKGESGLVLEGDKEIHQIFEDLDKKLALASRF YIPEGCIQRWAAEMVVALDALHREGIVCRDLNPNNILLNDRGHI QLTYFSRWSEVEDSCSDAIERMYCAPEVGAITEETEACDWWSL GAVLFELLTGKTLVECHPAGINTHTTLNMPPEWVSEARSLLIQQ LQFNPLERLGGAGVAGVEDIKSHPFPTPVDWAEMLR
6856	1617	997	VTQLYVSVDASTKDSLKKIDRPLFKDFWQQFLDSLKALAVKQQR TVYRLTLVKAWNVDLQAYALVSLGNPDFIEVKGVTYCGESSA SSLTMAHVPWHEEVVQFVRELVDLIPEYEIACEHEHSNCLLIAH RKFKIGGEWWTWINYNRFQELIQYEDSGSKTFSKADYNARTP HWALFGASERGFDPKDTRHQRKNKSKAISGC
6857	1	617	KGPEATAMVCVCSHPNCRQNHKPSHSAQTCWGSPTFASAPNH KLAMEQGGKTLPSATEDAKEEGLBAQISRLAELIGRLESKALWF DLQQLRSDDEGTNMLQLVRQEMAVCPQLSEFLDSLRLQYLRT TCVRNCFHITAVRLSDGFTFVIYBFWETEAWKRHLQSPICKAF RHVKVDTLQSPEALSRLVPAAWCTVGRD
6858	2	669	RSRGIKDFENDPPLSSCGIFQSRIAGDALLDSGIRISSVFASPA LRCVQTAKLILEELKLEKKIKIRVEPGIFEWTKWEAGKTPPTLM SLEELKEANFNIDTDYRPAFPLSALMPAESYQYMDRCTASMVQ IVNTCPQDTGVILIVSHGSTLDSCTRPLLGLPPRECGDFAQLVR KIPSLGMCFCBENKEEGKWBLVNPPVKTLTHGANAAFNRWNWIS GN
6859	1	1150	GETMFKKAKTKAKKKPRKRSDDSSGGYNLSDIITQSPSTGLLKSG KTNSVESLPELLTSDSEGSYAGVGSPRDLQSPDFTTGFSKIE AKVKPYVNGTSPVYSREDLKPEWESPIKISAPQPIPSNRIDTT SSASWAGSFSPVSPVVDLRTIMEIEESRQKCGATPKSHLGKT VSHGVKLSQKQKRMIALTTKENNSGMNSMETVLFTPSKAPKPVN AWASSLHSVSSKSRDFLLEKKSVTSHSSGDHVKKVSKFGIEN SQAPKIVRCSTHGTGPEGNHISDLPLLDSPNPWLSSSVTAPSM VAPVTFASIVEEELQQAALIRSREKPLALIQIEEHAIQDILLVF YEAFGNPEEFVIVERTPQGPLAVPMWNKHGC
6860	1889	1515	DKDKKRQKKRGIFPKVATNIMRAWLFQHLTHPYPSEEQKKQLAQ DTGLTILQVNNWFINARRIIVQPMIDQSNRAVSQGAAYSPEGQP MGSFVLDDGQHQHMGIRPAGPMGSGMNMGMDDGQWHYM
6861	1889	1515	DKDKKRQKKRGIFPKVATNIMRAWLFQHLTHPYPSEEQKKQLAQ DTGLTILQVNNWFINARRIIVQPMIDQSNRAVSQGAAYSPEGQP

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6862	2	471	MGSFVLDGQQHMGIRPAGPMSGMGMMGMGQWHYM EEIDRBFHNKLLKEDKLEKQEKPVNGEDKGDGVDTONSEGNA DEEDPLGPNCYYDKTKSFFDNISCDNRERRPTWABERRLNAET FGIPLRPNRGRGGYRGRGGLGFRGGRGGRGGGTFTAPRGFRG GFRGGRGREFADFEYRKTTAFGP
6863	2216	487	PQEPALKSEFSQVASNTIPLPLPQNTCKDNGPCKQVCSTVGGG AICSCFPQYAIMADGVSCEDQDECLMGAEDCSRROFCVNTLGSF YCVNHTVLCADGYILNAHRKCDVINECVTDLHTCSRGEHCVNTL GSFHCYKALTCEPGYALKDGECEVDCEAMGTHTCQPGFLCQNT KGSFYCQARQRCMDGFLQDPEGNCVDINECTSLSEPCRPGFSCI NTVGSYTCQRNPLICARGYHASDDGKCDVNECETGVHRCGEG QVCHNLPGSYRCDCKAGFQDADFGRGCDVNECWASPGRLCQHT CENTLGSYRCSGASGFLAADGKRCEVDNECEAQRCSQECANIY GSYQCYCRQGYQLABDGHTCTDIDCAQAGAILCTFRCLNVPGS YQCACPEQGYTMTANGRSCKDVDECALGTHNCSEAETCHNIQGS FRCLRFECPPNYVQVSKTKCERTTCHDFLEQNSPARITHYQLN FQTGLLVFAHIFRIGPAPAFPTGDTIALNIIKGNEEGYFGTRRLN AYTGVVYLQRAVLEPRDFALDVMKILWRQGSVTTFLAKMHIFT TFAL
6864	2	2933	LADSSPSNLQITIKELLSMHQPDPAITKEFDYLPVDSRSSSG FVGLRNGGATCYMNAVQQLYMQPGLPESLLSVDDDTNPDSSV FYQVQSLFGLHMEKLYQYVPENFWKIFKMWKELYVREQQDAY BFFTSLLIDQMDLYLKKMGRDQIFKNTFQGIYSQKICKDCPHRY BREEAFMALNLGVTSCQSLEISLDQFVRGEVLEGSNAYYCEKCK EKRTIVKRTCIKSLPSVLVIHLMRFGFDWESGRSIIKYDEQIRFP WMLNMEPYTVSGMARQDSSSEVGENGRSVDQGGGGSPPKQVALT ENYELVGVIVHSGQAAGHYYSFIKDRRGCGKWKYKFNDTVIE EFDLNDTLEYECFGEYRKPVDQTNPYTDVRRRYWNAFMLFY QRVSDQNSPVLPPKSRVSVVRQEAEDLSAPSSPEISPPSSPR PHRPNNDRLSILTKLVKKGEKKGLFVEKMPARIYQMVRDENLKF MKNRDVYSSDYFSFVLSLASLNATKLKHPYYPCKMAKVSLQALQ FLFQTYLRTKKKLVDTEEWIATIEALLSKSFDACQWLVBIFYIS SEGRELIIKIFLLECNVREVRVAVATILEKTLDALFYQDKLKS HOLLEVLALLDKDVPENCKNCAQYFFLNTFVQKQGRAGDLL LRHSALRHMISFLLGASRQNNQIRRWSSAQAREFGNLHNTVALL VLHSDVSSQRNVAPGIFKQRPPISTAPSSPLPLHHEVEALLFM SEKPYLLEVMFALRELTGSLALLIEMVYCCFCNEHPSFTMLH FIKNQLETAAPPHELKNTFQLLHEILVIEDPIQVERVKFVFETEN GLLALMHHSNHVDSSRCYQCVKFLVTLAQKCPAAKEYFKENSHH WSWAVQWLQKKMSEHYWTLQSNVSNSTGKTFQRTISAQD'LA YATALLNEKEQSGSSNGSESSPANENGDRHLQQGSESPMMIGEL RSDLDVDP
6865	1820	1242	DPERWKHLSKVTPPGSSVSTTPVQVVRILQSPQSGSMMPSCNRS CSCSRGPSVEDGKYGVRSYLHLFYEGYAVPPKLEGIGEGEFLV LDQRAADYNQALGTCLAGTALCVAAGVLLAICLFWAMIGWLSQ DTKAEPLDPEADSHVEVFGDEPEQQLSPIFRNASGQSWFSPPAS PFGQSSVQTIQPKRDS
6866	1571	495	DCPRPRYTLGLRATCMRDLDAWINAVSAFALEQDLVFNKIF IIEGMEEAGSVALEELVEKEKDRFFSGVDYIVISDNLWISQRKP AITVGTGRNSYFVVEVKCRDQDFHSGTGGILHEPMADLVALLG SLVDSSGHILVPGIYDEVVPLTEEEINTYKAITHLDEEYRNSR VEKFLFDTKEEILMHLWRYPSSLHIGIEGAFDEPGTKTVIPGRV IGKFSIRLVPHMNVSAVEKQVTRHLEDVFSKRNSNKMVVSMTL GLHPWIANIDDTQYLAAKRAIRTVFGTEPDMIRDGSTIPIAKMF QEIVHKSVVLIPLGAVDGGEHSQNEKINRWNYIEGTLFAAFFL EMAQLH

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6867	2833	1704	GTRIMSQPKQKELAGFVRQKMLLDYSVYMGRCVPOESRSRSPQSP LQSAESSPTAGKKLPVPPSEEEQEAWVNALLGRIFWDFLGEK YWSDLVSKKIOMKLSKIKLPYFMNELTLTELDMGVAVPKILQAF KPYVDHQGLWIDLEMSYNGSFLMTLETKMNLTKLGKEPLVEALK VGEIGKGGCRPRAFCCLADSDDESSAGSSEDDAPEPSGGDKQL LPGAEGYVGGHRTSKIMRFVDKITKSKYFQKATETEFIKKKIEE VSNTPLLLTVEVQECRGTLAVNIPPPPTDRVWYGFRKPPHVELK ARPKLGEREVLVHVTDWIEKKLEQEFQKVFVMPNMDVYITIM HSAMDRSTSCLLKDEPPVEAADQP
6868	1	346	RPTRPPTRPEEIKNLILPYISDMNFVQDLCEDFYELFKTDKGF D KATFESQMSVMRGQILNLTQALRDGKSPFQLVQIPCVIVERSQG GSQCRIVHLSNSFTQTVNCRKPFSSW
6869	3	1619	MYMERMDKRALISFWESVEHLKNANKNEIPQLVGEIYQNFVFS KEISVEKSLYKEIQQLVGNKGIEVFYKIQEDVYETLKDRYYP S FIVSDLYEKLLIKEEKHASQMISNKDEMGPERDEAGEEAVDDGT NQINEQASFAVNKLRELNEKLEYKQALNSIQNAPKPKKIVSK LKDEIILIEKERTDLQHMARTDWCENLGMWKASITSGEVTEE NGEQLPCYFVMVSLQEVGGVETKNWTVPKRLSEFHNLRKLSEC VPSLKKDQLPSLSKLPFKSIDHTFMEKFENQLNKFLQNLSSDER LCQSEALYAFSPSPDYLVKVIDVQGGKNSFSLSSFLERLPRDFF SHQEEETEEDSDLSYDGDVDGRKDALAEPCFNLIGEIFELRGM FKWVRRTLIALVQVTFGRTINKQIRDVTSWIFSEQMLVYYINIF RDAFWPNGKLAPPTTIRSKESQSTKQRAQCKLLENIPDMLQSL VGOQNARHGIKIFINALQETRANKHLLYALMELLLIELCPELRV HLDQLKAGQV
6870	1	1566	MAAVVAATRWWQLLLVLSAAGMGASGAPQPPNILLMLMDMGWG DLGVYGEPSRETPNLDRMAAEGLLFPNTFYSANPLCSPSRAALLT GRLPFRNGFYTTNAHARNAYTPQEIVGGIPDSEQLLPELLKKAG YVSKIYKWHLGHRPQFHLPLKHGFDEWFGSPNCHFGPYDNKARP NIPVYRDWEMVGRYEEFPINLKTGEANLTIYLOEALDFIKRQ ARHHFPFLYWAVDATHAPVYASKPFLGTSQGRGYGDAVRBIDDS IGKILELLQDLHVDNTFVFFTSNDGAALISAPEQGGSGNGPFLC GKQTTFEGGMREPALAWPGHVTAGQVSHQLGSIMDLFTSLAL AGLTPPSDRAIDGLNLLPTLLQGRLMDRPIFYRGDTLMAATLG QHKAHFWTWTNSWENFRQIDFCPCQNVSGVTTHNLEDHTKLPL IFHLGRDPGERFPLSFASAEYQEALSRTSVVQQHQAALVPAQP QLVNCNWAVMNWAAPPGCCLELKGCLTPPESIPKCLWSH
6871	209	1126	RMSLNPPITFLKRSEENSSKFVETKQSQ'TS'IASDPLQNLCLAS QEVQLKAQQSGRSKCLKCGSRMFYCYTCYVPVENVPICPIPLV KLPLKIDIIKHPNETDGKSTAIHAKLLAPEFVNIYTYPCIPYEY EKDHEVALIFPGPQSISTKDISPHLQKRIQNNVRGKNDDEPKPS FKRKRTEEQEFCDLNDKCKGTTLKKIIFIDSTWNQTNKIFTDE RLQGLLQVELKTRKTCFWRHQKGPDTFLSTIEAIIYYFLVDYHT DILKEKYRGQYDNLFFYSFMYOLIKNAKCSGDKETGKLT H
6872	880	459	FGLLMVVLSTIFMKGNCVREDLIFNLFKLGLDVRETNGLFGNT KKLITEVFVRQKYLEYRRIPTYTEPAEYEFWLGPRAFLETSKMLV LRFLAKLHKDPQSWPFHYLEALAECEWEDTDEDEPDTGDSAHG PTSRPPPR
6873	1929	955	DEQAVLCSKDKTYDLKIADTSNMLLFI PGCKTPDQLKKEDSHCN I IHTEIFGFSNNYWE LRRRRPKLKKLKLMLMENPYEGPDSQKEK DSNSSKYTTEDLLDQIQASEEEIMTCLQVLNACKIGGYWRILEF DYEMKLLNHVTQLVDSESWSGKVPNLNCLQELGPLEPEEMIEH CLKCYGKKYVDEGEVYFELDADKICRAAARMLLQNAVKNLAEF QEVWQQSVPEGMVTSLDQLKGLALVDRHSRPEIIFLLKVDLPE DNQERFNSLFLREKWTEDDIAPYIQDLCEGKQTIGALLTKYSH SSMQNGVKVYNSRRPIS

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6874	1	307	DSIADHVN SAAVNVEEGTKNLGKAAKYKLAALPVAGALIGGMVG GPIGLLAGFKVAGIAAALGGGVLGFTGGKLIQRKKQKMMKEKLS SCPDLPSTQTDKKCS
6875	1688	349	VIGTGERGNSASEKWEIMFNEELGDPFIIHISLILNAAEHSIA TLLRLRIEKEELDMKSGGFYVLEWVTISKKNQDNKKYEIIKRDI LRGKSVPHYAAIEPDGNGLMIVSYKSLTFVQAGQDLEENMDEDI SEKIKEPLYWQOTEDDLTVTIRLPEDNTKEDIQIQLPDHINI VLKDHQFLEGKLYSSIDHESSTWIKESNSLEISLIKKNEGLTW PELVIGDKQGBLIRDSAQCAIAERLMHLTSEELNPNPDKEKPP CNAQEELEECIFFEESSSLCRFDGNTLKTTHVNVNLSNQYLFVS IVDPKEMPCFCLRHVDALWQPHSSKQDDMWEHIATFNALGYV QASKRDKKFFACAPNYSYAAALCECLRRVFIYRQAPMSTVLYNR KEGRQVQVAKQVAVASLETNDPILGQATNERLFVLTTKNLFLLI KVNTEN
6876	41	1285	VGEMTLIWRHLLRPLCLVTSAPRILEMHFPLSLGTSRTSVTKLS LHTKPRMPCCDFMPERYQVIFLVNSGSEANELAMLARAHSNNI DIISFRGAYHGCSPYTLGLTNVGIYKMEPLGGTGCGPTMCPDVF RGPWGGSHCRDSPVQTIKRCSCAPDCCQAKDQYIEQFKDTLSTS VAKSIAGFFAEPIQGVNGVVQYPKGFLEAFELVARGGVCIAN EVQTGFGRGLSHFWGFQTHDVLDPDVTMAKIGINGFFMAAVITT PEIAKSLAKCLQHFNFTFGGNPMACAIGSAVLEVIKEENLQENSQ EVGTYMLLKFAKLRFDEFIVGDVVRGKGLMIGIEMVQDKISCRPL PREEVNQIHEDCKHMGLLVGRGSIIFSQTFRAPSMCITKPEVDF AVEVFRSALTQHMERRAK
6877	1	778	GTSPSPARAYAPPTERKRFYQNVSTQGGEGFEINLDRKLTTP QAKLFTVPSEALAIATATEWDSQQDTIKYYTMHLTTLNCTSLDN PTQRNKDQLIRAAVKFLDTDTICYRVBEPETLVELQRNEWDPII EWAEEKRYGVEISSSTSIMGPSIPAKTREVLVSHLASYNTWALQG IEFVAAQLKSMVLTGLLIDLRLTVEQAVLLSRLEEEYQIQKNGN IEWAHDYELQELRARTAGTLFIHLCSESTTVKHKLLKE
6878	931	263	QTLQGDFFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEGGQN LEEDTVTLEVLVAPAVPSCVEFPSSALSGTVVELRCQDKEGNPAP EYTWFKDGIIRLLENPRLGQSSTNSYTMNTKTGLQFNTPVSKLD TGEYSCEARNSVGYRRCPGKRMQVDDLNIISGIIAAVVVVVALVIS VCGLGVCIYARQKGYFSKETSFKSNSSSKATTMSENDFKHTKSF II
6879	3	845	IRVIGESDINQEFLESSEDENYNGVSDVELRVALPDGTTTVTRVK KNSTTDQVYQAIKAAKVGMDSTTVNYFALFEVISHSFVRKLAPNE FPHKLYIQNYTSAVPGTCLTIRKWLFTTEEEIILNDNDLAVTYF FHQAVDDVKKGYIKAEKSYQLQKLYEQRMVMVYLNMLRTCEGY NEIIFPHACDSRRKGHVITAISITHFKLHACTEEGQLENQVIA FEWDEMQRWDTEEGMAFCFEYARGEKKPRWVKIFTTPYFNYMHE CFERVFCELKWRKEEY
6880	2110	1437	RKDNCTAKEWTFPEAKWNTTARVFSHIRLGMGHVLIIVQCFTISS MANIYNEKILKEGNQLTESIPIQNSKLYFFGILFNGLTGLQLRS NRDQIKNCGFFYGHRAFSVALIFVTAQGLSVAFILKFLDNMFH VLMAQVTTTIIITTVSVLVDFRPSLEFFLEAPSLLSIFIYNAS KPQVPEYAPRQERIRDLSGNLWERSSSGDGELERLTKPKSDESD EDTF
6881	2638	2244	NDSKWEDITHVITGALKMFFRELPELFTFNHFNDFVNAIKQEP QRVAAVKDLIRQLPKPNQDTMQILFRHLRRVIENGEKNRMITYQS IAIVFGPTLLKPEKETGNIHAVHTVYQNVQIVELILLELSSIFGR
6882	1	850	GIPEAQLWIYPVKSCKGVPSAEACTAMGLRSGNLRDRFVLVIN QEGNMVTARQEPRLVLISLTCDGDTLTLAAAYTKDLLLPKPTPT TNAVHKCRVHGLEIEGRDCGEATAQWITSFLKSQPYRLVHFEPH MRPRRPHQIADLFRPKDQIAYSSTSPFLLILSEASLADLNSRLEK

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			KVKATNFRPNIVISGCDVYAEDSWDELLIGDVELKRVMACSRCI LTTVDDEDTGVMRSRKEPLETLKSYRQCDFPSEKLYGKSPFGQYF VLENPGTILKVGDFVYLLGQ
6883	2794	2256	NSKLKLNQNLKLFITLTYYQLSLHGWGPGIHLQKECAFPVTQNR ALQLLYDLRYLNLIVLTAKGDEVKSGRSKPDRIEKVTDHLEALI DPFDLDVFTPHLNSNLHRLVQRTSVLFGLVGTENQLAPRSSTF NSQEPHNILPLASSQIRFGLPLSMTSTRKAKSTRNIETKAQYD ANC
6884	2	99	EFERVATABAVKPRETSEPRAAQRFCEKFPFL
6885	297	1554	STGQFWHVTDLHLDPTYHITDDHTKVCASSKGANASNPFGFDV LCDSPYQLILSAFDFIKNSGQEASFMWTGDSPPHVPVPELSTD TVINVTNMTTTIQSLFPNLQVFPALGNHDYWPQDQLSVVTSKV YNAVANLWKPWLDEFAISTLRKGGFYSSQKVTNPNLRIISLNTN LYYGPNTMTLNKTDPAQFEWLESTLNNSQONKEKVYIIAHVPV GYLPSSQNITAMREYNEKLIDIFQKYSDVIAGQFYGHTRDSI MVLSDKKGSPVNSLFVAPAVTPVKSVLEKQTNNPGIRLFQYDPR DYKLLDMLQYLYNLTEANLKGESTWKLEYILTQTYDIEDLQPS LYGLAKQFTILDSKQFIKYNYFFVSVDSSVTCDKTCKAFQICA IMNLDNISYADCLKQLYIKHNY
6886	2	1341	QCCGIPGREGGSSRPLEEGTGSSPACVRGAAPGSEDAFYPTRAK QARVSQBLKKAARTRVSISEGPDTLGDMRERRETLALAPEPEP LEKEACEKWKRPFRSASATSLTSHCVDVVKGLLDFKKRGRHSI GGAPEQRYQIIPVCVAARLPTRAQDVLDAHLSEVNAVRFPGPNSS LLATGGADRLIHLWNVVGSRLEANQTEGAGGSIITSVDFDPSGY QVLAATYNQAAQLWKVGEAQSKETLSGHDKVTAAKFKLTRHQA VTGSRDRTVKEWDLGRAYCSRTINVLSCYNDVVCGDHIIISGHN DQKIRFWDNRGPHCTQVIVPQGRVTSLSLSHDLHLSCSRDNT LKVIDLRVSNIRQVFRADGFKCGSDWTKAVFSPDRSYALAGSCD GALYIWDVDTGKLESRLQGPACAAVNAVWCYSGSHMVSVDQGR KVVLWQ
6887	1047	116	WTARPSQKPFWEAGAVPGDPLSTGCSQAQLGGCCPRGPWPQHG GQORAAGPTLPRGERGGPQQSGPGLAAQTPTPSKQVAVRAFLTC TYRSQSPRSPAGPFRGGTGWPEPAVCLCVAVGPORLSSEGLVY NAGSEHCYDIYRLYHSCADPTCCGTGPDARAWDYQACTEINLT FASNVTDMFPDLPTDELRRQRYCLDTGWVWPRPDWLLTSFVGG DLRAASNIIFSNGNLDPWAGGGIRRNLSASVIAVTIQGGAHLD LRASHPEDPASVVEARKLEATIIGEWVKAARREQQPALRGGERL SL
6888	1	992	FVAYVKEIPIHIVVTHCLLNPHALVIKTLPTKLRLDALFTVVRVI NFIKGRAPNHLRFQAFEEIGIEYSVLLFHTMRWLSRGQILTH IFEMYEEINQFLHHKSSNLVDGFENKEFKIHLAYLADLFKHLNE LSASMQRGTGMNTVSAREKLSAFVRKFPFWQKRIEKNFTNFPFL EEIIVSDNEGIFIAAEITLHLQQLSNFFHGYFSIGDLNEASKWI LDPFLFNIDFVDDSYLMKNDLAE LRASGQILMEFFETMKLEDFWC AQPTAFPNLAKTALEILMPFATTYLCGLGFSITFTFQNKVPEAA LILSDDIRVAISKVPSFLGHH
6889	1	1534	LTLNQIKEEREQDNSESPNGRTSPLVSQNNEQGSTLRDLTTT AGKLRVGSTDAFIAPVYSMGAPSSKSGRTMPNILLDDIIASV ENKIPPSKTSKINVKPELKEEPEESIISAVDENNKLYSDIPHWS ICEKHILWLKDYKNSSNWKLFKECWKQGPVAVVSGVHKMNISL WKAESIISLDFGDHQAADLLNCKDSIISANVKEFWDGFEVSKRQ KNKSGETVVLLKLDWPSGEDFKTMMPPARYEDLLKSLPLPEYCNF EGKFNLAHLPGFFVRPDLGPRLCSAYGVVAAKDHDIGTTNLHI EVSDDVNNILVYVGIAKNGILSKAGILKKFEEEDLDDILRKLK DSSEIPGALWHIYAGKDVKIREFLQKISKEQGLEVLPEHDP DQSWYVNNKKLRQLLBEYGVRTWTLIQFLGDAIVLPAGALHVCQ

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			NFHSCIQVTEDFVSPPEHLVBSFHLTQELRLKKEINYYDDKLQVK NILYHAVKEMVRALKIHEDEVDDMEEN
6890	3	667	THACGMWIPLYLHRAVLVHKTAEATCNPPCGAKDSLIFGAITCF TGFLGVDTGAGATRWCRCLKTORADPLVCAVGMGLSAIFICLIFV AAKSSIVGAYICIFVGETLLFSNWAITADILMYVVIPTRRATAV ALQSFTSHLLGDAGSPYLIGFISDLIRQSTKDSPLWEFLSLGYA LMLCPFVVVLGGMFFLATALFFVSDRARAEQQVNQLAMPASVK V
6891	1980	1262	LRIHQELLSKELKLLRGITTESIIHIGLAAGKEQFMQDASNVMQ LLLKTQSHLYNMEDNNPEVRQAAAYGLGVMAQFGGDDYRSLCSE AVPLLVKVIKRAHSKTKKNVIATENCISAIGKILKPKPNCVNV EVLPHWLSWLPHEDEKEAIQTLFLCDLIESNHPVVGPNNSN LPKIISTIAEGKINETINYEDPCAKRIANVVRQVQTSLEDLWLEC VSQLDDEQEQEALQELINFA
6892	3	876	RSVAAASGPGANGTDHYCLELLRKRDRYEGYLCSELLPAESRSSV FALRAFNVELAQVKDSVSEKTIGLMRMQFWKKTVEIYCDNPPH QPVAIELWKAVKRHNLTNRWLMKIVDEREKNLDDKAYRNKELE NYAENTQSSLLYLTLEILGIKDLHADHAASHIGKAQGIIVTCLRA TPYHGSRRKVFPLMDICMLHGVSQEDFLRRNQDKNVRDVLYDIA SQAHHLKHKARSFHKTVPVKAFFAFLQTVSLEDPLKKIQRVDFD IFHPSLQQKNTLLPLLYLYIQSWRRTY
6893	1	842	DGERKSMSVERTFSEINKAEQYSLCQELCSELAQDLQKERLKG RTVTIKLKNVNFVETRASTVSSSVSTAEEIFAIAKELLKTEID ADFPHPRLRLMLGVRISSEFNEEDRKHQQRSIIIGFLQAGNQALS ATECTLEKTDKDKFVKPLEMSHKSSFFDKRSEKRWSHQDTFKC EAVNKQSFQTSQPFQVLKKMNENLEISENSDDCQILTCVCFR AQCCISLEALNKHVDECLDGPSISENFKMFSCSHVSATKVNKKE NVPASSLCEKQDYEAH
6894	1742	1463	TTLCKPLVPREHQFYETLPAEMRKFTPOYKKGKSQLLEGPLHWRG DVRDRGHGRPWQPSLEPSLPPTLCFPLSSSFSSSWPSAQLHTPS VFNPW
6895	2379	478	VTVYELCDIASPTALLIMRTVLVDLIVEDLQSTSEDKEQQYTSQT TRLALLYALASHKACKLAILHLINGTIKODERYAEIFQDLALL VRSPGDSVIRQQCQVEYVTSILQSLCDQDIALILPSSSEGSISEL EQLNSLNPKNELMTSICDCLLATLANSESSYNCLLTCVRTMMFL AEHDYGLFHLKSSLRKNSSALHSLKRVVSTFSKDTGELASSFL EFMRQILNSDTIGCCGDDNGLMEVEGAHTSRTMSINAAELKQLL QSKEESPENLFLELEKLVLEHSKDDNLDLSLLDSVVGLKQMLBS SGDPLPLSDQDVEPVLSPAPESLQNLFNNTAYVLADVMDQLKS MWFTEPQAEEDTDLDLVKVDLIELSEKCCSDFDLHSELSERFL SEPPSPGRTKTTKGFKLGKHKHETFTITSSGKSEYIEPAKRAHV PPPRGRGRGGFGQGRPHDIFRQRKQNTSRPPSMHVDDFVAAES KEVVFQDGIPPPKRPLKVSQKISSRGGSFSGNRGGRGAFHSQNR FTPPASKGNYSRREGTRGSSWSAQNTFRGNYNESRGGQSNFNR PLPPLRPLSSTGYRPSPRDRASRGRGGLGPSWASANSRGGSGRG KFVSGSGRGRHVRSFTR
6896	1	555	GNIVIQKKYKQHIIPLENTIDSIDEGDLRNGWLKTPTKS FAVYAATATEKSEWMNHINKCVTDLLSKSGKTSPNEHAHVWVP SEATVCMRCQKAKFTPVNRRHHCRKCGFVVCPCSEKRFLLPSQ SSKPVRI CDFCYDLLSAGDMATCQPARSDSYSQSLKSLPNDMSD DDDDDDSSD
6897	3	920	GDGLMHVNVNGLMERPDWETAIQKPLCSLPAGSGNALAASLNHY AGYEQVTNEDLLTNCTLLCRLLSPMNLSSLHTASGLRFLSVL SLANGFIADVDESEKYRRLGEMRFTLGTFLRLAALRTYRGRLA YLPVGRVGSKTPASPVVQGGPVDALHVPLEPVPVSHWTVVDE DFVLVLALLHSHLGSEMFAPMGRCAAGVMHLFYVRAGVSRAML

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			LRLFLAMEKGRHMEYECPLYVYPVVAFLRLEPKDGKGVFAVDGE LMVSEAVQGGVHPNYFWMVSGCPEPPPSWKPPQMPFPEEPL
6898	919	346	QKTVTAVASLLKGRQGIYTENERRMGAVIKIRFFKIMLVLTICW LSNIIINESLLFYLEMQTDINGGSLKPVRTAAKTTWFIMGILNPA QGFLSLAFYQWGTGCSLGFQSPRKEIQWESLTTSAEAGAHPSPL MPHENPASGKVSQVGGQTSDEALSMLSEGSASTIEHTASESC NKNEGDPALPTHGDL
6899	120	827	MKVRKNNDAYLLDKNKINMDCFISCFKKMLTTLMFHSGILSL LEHGEYTFSLPCAYARSILTVPPVELGKVSVCNCAKTGYASASI TFHTKPFYGGKLHRVTAEVKHNITNTVVCRVQGEWNSVLEFTYS NGETKYVDLTKLAVTKKRVRLPEKQDPFESRRLWKNVTDLSRES EIDKATEHKHTLEERQRTTEERHRTETGTPWKTKYFIKEGDGWVY HKPLWKIIPPTQPAE
6900	3	451	TEVLGSKGIHELRSSTSLHHALESASLLTMFWRAALPSTHIP VLPKVGESTERELLELRTKVSQQEQLLQSTTEHLKNANQOKES MEQFIVSQLTRTHDVLKKARTNLEVRKLLHQSEAPSLSPTHHHP LADLVGDSWPALRFQEK
6901	1	201	DDNMVQRLETDKMTLQQQSTLEQWAAWLDNMVMQALKPYEGRP SFPKAAQFLLKWSFYRYHLGFS
6902	2	267	GAPPPPPSQPPRPQPAAPSSPHSDLTTFNESSALEGQAGAQA SDMPFSLDLLPELTNDELLSYLDPPDLPSNSNDLLSLFENN
6903	1	149	RINQVYRQGFTHILVIDQMVFQDESCFLPSTVKAESSDGI HIILK
6904	464	2092	MEASLPVSLSCVLACGDVEGKFDILFNVRQAIQKKSNGFDLLC VGNFFGSTQDAEWERYKTGIKKAPIQTYVLGANNQETVKYFQDA DGCELAENITYLGRKGIFTGSSGLQIVYLSGTESLNEVPVPGYSF SPKDVSSLRMMLCTTSQFKGVDILLTSPWPKCVGNFGNSSGEVD TKKCGSALVSSLATGLKPRYHFAALEKTYERLPYRNHIIQEN AQHATRFIALANVGNPEKKKLYAFSIVPMKLMDAEILVKQPPD VTENPYRKSGQEASIGKQILAPVEESACQFFFDLNEKQGRKRSS TGRDSKSSPHPKQPRKPPQPPGCPWFCLASPEVEKHLVNVNIGTH CYLALAKGGLSDDHVLILPIGHYQSVVELSAEVEVEVEKYKATL RRFKSRGKWCVVFNRYKSHHLQLQVIVPPIESCSTDDIKDAF ITQAEQEQIELLEIPHSIDIKQIAQPGAAYFYVELDTGEKLFHR IKKNFPLQFGREVLASEAILNVDPKSDWRQCQISKEDETLARR FRKDFEPYDFTLDD
6905	1	226	VSKTGEAETITSHYLFALGVYRTLYLFNWIWRVHFEFGFDLIAI VAGLVQTVLYCDFYLYITKVLKGGKLSLPA
6906	3	611	SYDDHNGHIDFITAASNLRAKMYSEIPADRFRKTKRIAGKIIPAI ATTATVSGLVALEMIKVTGGYPFEAYKNWFLNLAIPVVFTE TEVRKTKIRNGISFTIWRWTVHGKEDFTLLDFINAVKEKYGIE PTMVVQGVKMLYVPVMPGHAKRLKLTMHKLKVPTEKKYVDLTV SFAPDIDGDEDLPGPVRYFFSHDTE
6907	2	2228	LRGVFVWAAGAFRFSSGEESTSHLIMSRRSQRLTRYSGDDDDGS SSSGSSVAGSQSTLFKDSPLRTLKRKSSNMKRLSPAPQLGPS DAHTSYYESLVHESWFPFRSSLEELHGDANWGEDLRVRRRGT GGESSRASGLVGRKATEDFLGSSSGYSSSEDDYVGYSVDVQSS SSRLRSVSVRAGSLLMWVATSPGRLFRLLYWWAGTTWYRLITAA SLLDVFLTRRFSSLKTFLWFLPLLLLTCLTYGAWFYFYPGLQ TFHPALVSWWAAKDSRRADGWEARDSSPHFQAEQVRMSRVHSL ERRLEALAAEFSSNWQKAMRLERLELRQGAPGQGGGGGLSHED TLALLEGLVSRREAALKEDFRRETAARIQEELSALRAEHQQDSE DLFKKIVRASQSEARIQQLKSEWQSMQESFQESSVKELRRL DQLAGLQQELAAALAKQSSVAEEVGLLPQIQAVRDDVESQFFA WISQFLARGGGGRVGLLQREEMQAQLRELESKILTHVAEMQCKS

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			AREAAASLSLTLOKEGVIGVTEEQVHHIVKQALQRYSEDRIGLA DYALESGGASVISTRSETYETKTALLSLFGIPLWYHSQSPRVI LQPDVHPGNCWAFQGGQFAVVRISARIRPTAVTLEHVPKALSP NSTISSAPKDFAIQFDEDLQQEGTLLGKFTYDQDGEPIQTFFH QAPTMATYQVVELRILTNWGHPEYTCIYRFRVHGBFAH
6908	3	780	QVPSAAWLMVAVCGLSRLGLGSRLLGQCGAARLLYPRFQSRG PQGVDEGDRPQPSKTPRI PKIYTKTGDKGFSSTFTGERRPKDD QVFEAVGTTDELSSAIGFAELVTEKGHFAEELQKIQCITLQDV GSALATPCSSAREAHLYKTTFKAGPILELEQWIDKYTSQPLPLT AFILPSGGKISSALHFCRAVCRRAERRVPLVQMGETDANVAKF LNRLSDYLFLLARYAAMKEGNQEKTYKKNDPSAESEGL
6909	3	409	GRLLAVGTDLYGQRSSAPEQELLVQDATPVNSNLSLEKAFSDIP SPYLRGTIKMMQAVRQAFQDQDDRTWDGRPLTMAATFDDCLYA LCVVDTIKRSSQTGEWQNIAMTEPELSPAYLISEAMRRSRMS LYC
6910	1	1068	LVPVVVIDSYYYGKLVIAPLNIVLYNIPTPHGPDLYGTEPWYFY LINGFLNFNVAFALALLVPLTSLMEYLLQRHFVQNLGHPYWL LAPMYIWFIIFFIQPHKEERFLFPVYPLICLCAVALSALQHSF LYFQKCYHFVQRYRLEHYTVTSNWLALGTVFLGILLSFSRVA LFRGYHGLDLYPEFYRIATDPTIHTVPEGRPVNVCVGKEWYRF PSSFLLPDNWQLQFIPSEFRGQLPKPFAEGPLATRIVPTDMNDQ NLEEPSRYIDISKCHYLVLDLTMRETREPKEYSSNKEBWISLAY RPFLLDASRSSKLLRAFVVPFLSDQYTVVYNYTILKPRKAKQIRK KSGG
6911	1184	966	GEDAEBMETGNVANLISIFGSSFSGLLRKSPGGGREGEEEGEESG PEAAEPGQICCDKPVLRDMNPWSTAIVAF
6912	1	844	AMKPVETHSFQMLFTILSTGSALKAQSYEDAYRCIKSSILLGSI SGGTDIISCFMGHNSFLPVYKGEIQARNLGMAVEAWNREGKAVW GESGELVCTKPIPCQPTHFWNDENGKRYKAYFSKFPGLWAGD YCRINPKTGGIVMLGRSDGTLPNGVRFSGSEIYNIVESFEEVE DSLCPVQYNKYREERVILFLKMASGHAFQPDVLRIRDAIRMGL SARHVPSLILETKGIPYTLNCKKVEVAVKQI IAGKAVEQGGAFS NPETLDLYRDIPELQGF
6913	1643	1558	KKSHEESHKEELSYGAQASLPLPCSDFR
6914	1251	615	ELAAECKSAGVPGTLIPYRCDLSNEEDILSMFSAIRSCHSGVDI CINNAGLARPDTLGSGTSGWKDMFNVNVALSICTREAYQSMK ERNVDDGHIININSMGHRVLPISVTHFYSATKYAVTALTEGLR QELREAQTHIRATCISPGVETQFAFKLHDKDPEKAAATYEQMK CLKPEDVAEAVIYVLSTPAHIQIGDIQMRPTEQVT
6915	254	652	GRSLSFKTFLLIWLISIVQGGILMYGALVLFSEFVHVVAISFT ALILTELLMVALTVRTWHLMVVAEFLSLGCVVSSLAFLNEYFD VAFITTVTFLWKVSATVVSCLPLYVLKYLRRKLSPPSYCKLAS
6916	254	652	GRSLSFKTFLLIWLISIVQGGILMYGALVLFSEFVHVVAISFT ALILTELLMVALTVRTWHLMVVAEFLSLGCVVSSLAFLNEYFD VAFITTVTFLWKVSATVVSCLPLYVLKYLRRKLSPPSYCKLAS
6917	254	652	GRSLSFKTFLLIWLISIVQGGILMYGALVLFSEFVHVVAISFT ALILTELLMVALTVRTWHLMVVAEFLSLGCVVSSLAFLNEYFD VAFITTVTFLWKVSATVVSCLPLYVLKYLRRKLSPPSYCKLAS
6918	28	921	PEAGTRSWREPDPEDLRRFLLSAACRSFPQWLPGGGGQVSSCS DTDVPYLLAVKSEPGRFAERQAVRETWGSAPAGIRLLFLGSP VGEAGPDLSLVANESRRYSDDLWDVFPFNQTLKDLLLAW LGRHCPVTVSVLRAQDDAFVHTPALLAHLRALPPASARSLYLGE VFTQAMPLRKPGGPFYVPESFFEGGYPAYASGGGYVIAGRLAPW LLRAARVAPFPFEDVYTGICIRALGLVPQAHPGFLTAWFADRT ADHCAFRNLLVLRPLGPQASIRLWKQLQDPRQC



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6919	850	41	QGRRELSEGSVFCEFFIQQEPKEMLTLSYHERVRSQGGQQLQQLQA ELDKLHKEVSTVRAANSERVAKLVFQRLNEDFVRKPDYALSSVG ASIDLQKTSYADRNAYFWNRFSFWNYARPPTVILEPHVFPF NCWAFEGDQGGVVIQLPGRVQLSDITLQHPSPVEHTGGANSAP RDFAVFFLLSFFTHQGLQVYDETEVSLGKFTFDVEKSEIQTFHL QNDPPAAPPKVKIQILSNWGHPRFTCLYRVRAGVVRTSEGAEGS AQGPH
6920	1418	591	EAQGPSKVHLTLKKKK
6921	2	1711	MNATRESEGFHVINHAEQTLRKMENYLKQKLCVLLIACHLRT PAHRLVLSAVSDYFAAMFTNDVLEAKQEEVRMEGVDPNALNSLV QYAYTGVLQKEDTIESLLAAACLLQLTQVIDVCSNFLIKQLHP SNCLGIRSPGDAQGCTELLNVAHKYTMEEFIEVIKNQEFLLLEA NEISKLLCSDDINVPDEETIFHALMQWVGHVQNRQGGELGMLLS YIRLPLPPQLADLETSSMFTGDLCEQKLLMEAMKYHLLPERR SMMQSPRTKPRKSTVGALYAVGGMDAMKGTITIEKYDLRTNSWL HIGTMNGRRLQFGVAVIDNKLYVVGGRDGLKTLNTVECFNPVGK IWTVMPPMSTHRHGLGVATLEGPMYAVGGHDGWSYLNTERWDP EGRQWNYVASMSTPRSTVGVALNNKLYAIGGRDSSCLKSMEY FDPHTNKWSLCAPMSKRRGGVGVATYNGFLYVVGHDAPASNHC SRLSDCVERYDPKGDWSSTVAPLSVPRDAVAVCPGLDKLYVVG YDGHYTLNTVESYDAQRNEWKEEVPVNIGRAGACVVVVKLP
6922	1075	369	LTPPAGIRHEVRDREREREREREREKFPDSTGSELKQNIHSIT GLPPAMQKVMYKGLAPEDKTLREIKVTSGAKIMGGSTINDVLA VNTPKDAAQQDAKAEENKKEPLCRQKQHRKVLDDKGPBDMPSV KGAQERLPTVPLSGMYNKSGGKVRITFKLEQDQLWIGTKERTEK LPMGSIKNNVSEPIEGHEDYHMMAPQLGPTSEASYWVYVWPTQY VDAIKDTVLGKNQYF
6923	2469	1660	LGLFCILPFDITLCAVLERDTLSIRESRLFGAVVRMAEACQROQ LPVTFGNKQKVLGKALSLIRFPLMTIEEFAAGPAQSGILSDREV VNLFLHFTVNPVKPRVEYIDRPRCCLRGKECCINRFQQVESRWGY SGTSDRIRFTVNRRIISIVGFLYGSIHGPTDYQVNIQIIEYEKK QTLGQNDTGFS CDGTANTFRVMFKEPIEILPNVCYTACATLKG DSHYGKGLKKVHETPAASKTVFFFFSSPNNNGTSIBDQIP BIIFYT
6924	2210	1235	PEERVICFVEYYLTAFHEGRKGALAKKPYNEIIGETFHCSWEVP KDRVKPKRTASRSPASCHHEPMADDPKSKYKLPFAEQVSHHPP ISCFYCECEKRLCVNTHVWTKSKFMGMSVGVSMIGEGVLRLL HCEEYVFTLPSAYARSILTIPWVELGGKVSINCAKTGYSATVIF HTKPFYGGKVHRVTAEVKHNPTNTIVCKAHGEWNGTLEFTYNN ETKVIDTTTTLPVYPKKIRPLEKQGPMSRNLWREVTRYRLGDI DAATEQKRHLEEKQQRVEERKRENLRTPWKPKYFIQEGDGSILQ SPLESTLMGLEVQSFPV
6925	2	1653	RGAAGAAMEBDSVIEDKTIELMCSVPSRLWLGCANLVESMCAL SCLQSMPSVRCLQISNGTSSVIVSRKR?SEGNKYQEKDLCIKYF DQWSESDQVEFVEHLISRMCHYQGHINSYKPKMLQRFITLAP EQGLDHAENILSYLDARSLCAELVCKEQRVISEGMLWKKLI ERMVTRDPLWKGLSERRGWDQYLFKNRP?TGPPNSFYRSLYPKI IQDIETIESNWRCGRHNLQRIQCRSENSKGVYCLQYDDEKIISG LRDNTKIWDKTSLECLKVLTGHTGSVLCQYDERVIVIGSSDS TVRVWDVNTGEVLNLTLIHNEAVLHLRFSNGLMVTCSKDRSIAV WDMASATDITLRRVLVGHRAAVNVVDFDDKYIVSASGDRITIKVW STSTCEFVRTLNHGKRGIAQLQYRDLRVSGSSDNTIRLWDIEC GACLRVLEGHEELVRCIRFDNKRIVSGAYDGKIKVWDLQAALDP RAPASTLCRLTLVEHSGRVFRLQFDEFQIISSSHDDTILIWDFL NVPPSAQNETRSPRTYTYISR
6926	1	733	SGRVAMDGLQLQFPQGGFAGPPLLPHPMGGHYRDCQSLGAPPL

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			DGYPLPTEDTSPLDGVDPDPFAFFAAMPFGDCPAAGTYSYAQVSD YAGPPEPPAGPMHPRLGPEPAGPSIPGLLAPPSSALHVVYVGAMGS PGAGGGRGFQMQPQHQQHQQHHPGPGQPTPPPEALPCRDGT DPSQPAELLGEVDRTEFEQYLHFVCKPEMGLPYQGHDSGVNLPD SHGAISSVVSDASSAVVYCNYPDV
5927	2	1484	LTLCGDIQLMLAQNANNRAAHLEEFHYQTKEDQETLHSLHRESS CQGFANATDLSTDLESQLSVCKCYAANEILQFRDLKSNPEH YVQVLKRMGNIRNEIGVFFYMNQAAALQSERLVSXSVSAAEQQLW KKSFSFCFEKGIHNFESIEDATNAALLCNTGRMLRICAQAHCGA GDELKREFSPEEGLYNKAIDYVLKALRSLGTRDIHPAVWDSVN WELSTYFTMATLQDDYAPLSRKAQEQIEKEVSEAMMKSLKYCD VDSVSARQPLCQYRAATIHRLASMYHSLRNQVGDHHLRKHQR VLADLHYSKAAKLFQLKADAPCELLRVQLERVAFAEFQMTSQNS NVGKLTLSGALDIMVRTEHAFQLIQKELIEFQGPKEGDAAA ADASPSLNREEVMKLLSIFESRLSFLLLQSIKLLSSTKKKTSNN IEDDTLTKINKHIYSQLLRATANKTATLLERINVIVHLLGQLAA GSAASSNAVO
6928	1086	777	EAIDLNNLLQVKMRKRYSDVKTLSHPWLDQYQTLWDLRELECK IGERYITHESDDLREWEKYAGEQGLQYPTHLINPSASHSDTPETE ETEMKALGERVSIL
6929	1749	607	RDQRGYRDDRSFAPREFGVDVSARTSGGGGGRSATTAMPPVPVNG NLHQHDPQDLRHNGNVVVAGRPSCSRGPRRAIQKPQAGGRRSG RGPAAGGLCLQPPDGGTCVPEEPPVPMDEALEKHLAQLQFRE QEVNRQGGARTNSTSAQKNERESIRQKLALGSFFDDGGPIYTSC SKSGKPSLSSRLQSGMNLQICFVNDSSGSKDSDADDSKTETSLD TPLSPMSKQSSSYSDRDTTEESSESLDDMDFLTRQKKLQAEAKM ALAMAKPMAKMQVEVEKQNRKKSFPVADLLPHMPLISECLMKRSL KPTDLRDMTIGQLQVIVNDLHQSIESLNEELVQLLLIRDELHTE QDAMLVDIEDLTRHAESQKQKMAEKMPAK
6930	131	545	FKDTANVFVSLFQMRNNFRHYFIEPSQLKLFYDVTWITVITQVAI SYTVVPFVLLSIKPSLTFYSSWYCLHILGILVLLLVKKTKQR RKNTHENIQLSQSKKFEDEGENSLGQNSFSTINNVNQNQEIASR HSSLKQ
6931	2	659	FVERLPNRPACLLVASGAAEGVSAQSFLHCFTMASTAFNLQVAT PGGKAMEFVDVTESNARWQDFRLKAYASPAKLESIDGARYHAL LIPSCPGALTDLASSGSLARILQHFHSESKPICAVGHGVAALCC ATNEDRSWVFDYSYSLTGPSVCELVRAPGFARLEPLVVEDEVKDS ACFSASEPDVAVHVLDRHLVTGQNASTVPAVQNLFLCGRSK
6932	2	1131	FVDSEGGQGEQAEHEEGGIQMNRSRMAHSPAEGASVSSSPGPKK SDMCBEGCRSLAAGHPGYISHDKETSIKYVSHQHPHPQLFSIVR QACVRSLSCEVCPGREGPIFFGDEQHGPFVSHTFIKDSLARGF QRWYSIITIMMDRIYLINSWPFLGKVRGIIIDELQGKALKVFEA EQFGCPQRAORMNTAFTPFLHQRNNGNAARSLTSLTSDNLWACL HTSFAWLLKACGSRLTEKLLLEGAPTEDTLVQMEKLADLEESES WDNSEAEHEEEKAPVLPPESTEGRELTQCPAESLSLSCGSGWQPRK LPVFKSLRHMQRVGGRTAHHELRRRANHCLCLPTRLASGPGSTL KTLQEVTDLSLLGGLWMAQCVGGII
6933	1431	890	SLNLHCTLP PPPHQYPAGYPSDKEGKKPKGQSKKQPSGTTKRPI SDDDCPSASKVYKASDSAEAEAFQLTPCQQLHIREDCQONQKLW DEVLSHLVEGPNFLKKLEQSFMCVCCQLVYQPVTTTECFHNVC DCLQRSEKQVFCSPACRHDLGQNYIMIPNEILQTLDDLFFFGY SKGR
6934	3030	2588	DRDHSQCGGIRRVALARVSSVKLISKAKIRTVKMTFIIVLAFIV CWTPTFFFVQMWVWDANAPKEASAFIIVMLLASLNSCCNPWIYM LFTGHLPHLVQRFLLCCSASYLKGRRLGETSASKKSNSSSFVLS HRSSSQRSCSQPSTA

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6935	886	543	NSALYVAGGNDGTSCLSNVERYSPKAGAWESVAPMNIRRSTHDL VAMDGWLYAVGCNDGSSSLNSIEKYNPRTNKNVAASCMFTRRSS VGVAVLELLNFPPSSPTLSVSSTSL
6936	1347	567	RSRRRQFLSRALLEFFGKSHPPHRLFRKSLNVGLHYSHIPFLT TCLHFLRKLQKGEVGLSVETSKPQVPVGLSRKKVPQBPWATV MEKRLQEAQLYKEEGNQRYREGKYRDAVSRYHRRALLQLRGLDPS LPSPLPNLGPQGPALTPBQENILHTTQTDCCYNLAACLLQMEPV NYERVREYSQKVLERQPDNAKALYRAGVAFHLLQDYDQARHYLL AAVNRQPKDANVRRYLQLTQSELSSYHRKEKQLYLGFMFG
6937	1	727	AVEFRCCPGRDPACFARGWRDLRVYGTCTCFDQACRFTGDCCFDY DRACPARPCFVGEWSPWSGCADQCKPTTRVRRSVQBEPPONGGA PCPPLEERAGCLEYSTPQGGDCGHTYVPAFITTSAFNKERTRQA TSPHWSHTEDAGYCMFETESLTPHCALENRPLTRWMQYLRREG YTVCDQCQPPAMNSVSLRCSGDGLSDGNQTLHWQAIGNPRCQG TWKKVRRVDQCSCPAVHSFIFI
6938	3	719	NSRKLELAERVDTFDMQLKKRRQSSEKENDSGTLDTVGAVVVDH EGNVAAVSSGGLAKHPGRVGGQAALYGCWCWAENTGAHNPYST AVTSGCGEHLVRTILARECSHALQAEDAHAQALLETMONKFISS PFLASEDGVLGVIIVLRSCRSAEPDSSQNKQTLLEFLWSHTT ESMCVGYMSAQDGKAKTHISRLPPGAVAGQSVATEGGVCRIQEP SELTLQAECEASQRHFT
6939	3	810	KVTAPRRPQRYSSGHGSDNSSLGELPPAMGRITLFFHSGGSS GYESLRDSEATGSASSAPDSMESGAASPGARTRSLKSPKKRA TGLQRRRLIPAPLPDITLGRKPSLPGQWVDLPPPLAGSLKEFF EIKVYHIDDVERLQRPRTPREAPTQGLACVSTRRLAERQQR LREVQAKHKLCEBLAETQRLMLEPGRWLEQFEVDPELEPESA EYLAALERATAALEQCVNLCKAHVMVTCFDISVAASAIIPGPQ EVDV
6940	1188	496	GKMAAQFLRHRRCATPPRGDFCGGTERAIDQASFTTSMEDWTQ VVKGSSPLGPAGLGAEEPAAGPQLPSWLQPERCAVFCQAQCHAV LADSVHLAWDLRSRLGAVVFSRVTNVLEAPFLVGLIEGSLKKS TYNLLFCGSCGIPVGFHLYSTHAALALRGHFCLSSDKMVCYLL KTKAIVNASEMDIQNVPLSEKIALBLKEKIVLTHNRLKSLMKILS EVTDPQSKPEN
6941	1	713	SLSRADSDPHGPHTCGHVLNVIIIGSNVLALAEARQAEALGYQA VVLSAAMQGDVKSMAQFYGLLAHVARTRLTPSMAGASVEEDAQL HBLAAELQIPDLQLEEALETMAWGRGPVCLLAGGEPTVQLQSGG RGGRNQELALRVGAELRRWPLGPIDVLFSLGGTDGQDGPTEAAG AWVTPELASQAAAEGLDIATFLAHNDSHTFFCCLQGGAHLLHTG MTGTNVMDTHLLFLRPR
6942	1	246	GDYVERYDPKTDITWTMGAPLSMPTNAVGGCLLDRLYADGGYDG QTYLNTMESYDPQTNEWTQMASLNIGRAGACVVVIKQP
6943	1	739	PMATGDGAKTLAIHVKALTADSIRITWKATLPASSFRLSWLRG HSPAGGSITETLVQGDKTEYLLTALEPKPTIYIICMVTMETTNAY VADETPVCAKAETADSYPGPTTTLNQEQNAGPMASPLAGIIGGA VALVFLFLVLGAICWYVHQAGELLTRERAYNRGSRKKDDYMBESG TKKDNSILEIRGPGQLMPLINPYRAKEEYVHTIFPNSGSSLCK ATHTICYGTTRGYRDGGIPDIDYSYT
6944	960	156	VANILLNGVKYSELTSSESAEQPLSVGRLCSTICNMPKALRT LCVNHFLGWLSFEGMLLFYTFMGVEVVFQGDPAKPTSEAYQKY NSGVIMGCWGMCIYAFSAFYSAILEKLEEFSLSVRTLYFIAYLA FGLGTGLATLSRNLYVVLSCITYGILFSTLCTLPYSLLCDYYQ SKKFAGSSADGTRRGMGVDISLSCQYFLAQILVSLVGLPLTSA VGSANGVMYFSSLSVSLGCLYSSLFVIYEIPPSDAADEHRPLL LNV

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6945	2067	179	EGEDRGLPRTMGAALGTGTRLAPWPGRACGALPRWTPTAPAQGC HSKPGPARPVPLKKRGYDVTRNPHLNKGMAFTLEERLQLGIHGL IPPCFLSQDVQLLRIMRYIERQQSDLDKYIILMTLQDRNEKLFY RVLTSDVEKFMPIVYTPVGLACQHYGLTFRPRGLFITTHDKG HLATMLNSWPEDNIKAVVVTGGERILGLGDLGCGMGIPVKGKLA LYTACGGVNPQQCLPVLLDVGTINNEELLRDPLYIGLKHQRVHGK AYDDLLEDFMQAVTDKFGINCLIQFEDFANANAFRLNKNYRNKY CMFNDDIQGTASVAVAGILAAIRITKNKLSNHVFGFGGAGEAAM G\IAHLLVMALE\KEGVPKA\EATRKIW\MVDF\KGLIVQGRDH LNHEKEMFAQD\HPEVNSLEEVVRLVKPTAIGVAAIAEA\FTE QILRDMASFHERP\IIFALSNPTS KAECTA\EKCYRVTEGPRGF FAS\GSPF*GVLIWEMGKTFIPGGRGNNA*RVPRGWLGVHSPG GDPGHIP\DEIFLPDSRAKLPQEVSEOHLSQGRLYP\PLST\IR NVFLRIAIVKVD*GYKHNLV\SYYPEPKD\KEAFCKIPGSYTPD YDSFYT/VDSYIWAQCKAMNVQTV
6946	133	2551	SCEYSGITVAPGDCPCGVAHLLAPSMASDTPESLMALCTDFCLR NLDGTLGYLLDKETLRHLPDIFLPSEI\CDRLVNEYVELVNAAC NF\EPHE\SFFNPLFRDPRKQPASRRHIL\RED\LVQD\QD\LE AIRKQDL\VEL\YLTN\CEKLSAKSLQTLRSFSHTLGVP*AFFG C\TNILLRKENPGGL/CEDEYLFNPTCQVLVKDFTFEGFSRLR F\LKLRMIDWVPVES\LLRPLNSLAALDLSGIQTSDA\FLTQ WKDSL\VSLVL\YNMDSLDDHIR\VIQVHLKLRHLDISRDLSS YYKFKLTREVLSLFVQKGLNMLSLDISG\HMLENCISISKIGKR EAGQTSI\EPSK\SSIIIPRFGFEGGPLQF\LGVF*GIFCGRLTH IPAYKVS GDKNEEQVLNAEAYTEHRPEITSRAINLFLDIARIE RCNQLLRALKLIVITALKCHKYDRNIQVTGSAALFYLTNSEYRSE QSVKLRQVIQVVLNGMESYQEVTVQRNCLTLCNFSIPPELEF QYRRVNEILLSILNPTRQDESIQRIAVHLCNALVCQVNDHKEA VGKMGFVVMTLKLTKQKLLDKTCDQVMEFSW\SALWNITDETDP NCEMFLNFNGMKLFLDCLNEFPEKQELHRNMLGGLGNVABVKEL RPQLMTSQFISVFSNLLESKADGIEVSYNACGVLSHIMFDGPEA WGVCEPQREEVEERMWAAIQSWDINSRRNINYSFEPILRLLPQ GISPVSOHWATWALYNLVSVPDKYCPLLIKEGGMPLLRDIIKM ATARQETKEMARKVIEHCSNFKEENMDTSR
6947	2	1682	TSVSTIPRGLASARPQSRWRCPCVWRRSPGRARGRLKMLNVP SQSFAPRSQQRVAGGRSKVPLKQGRSLMDWIRLTKSGKDLTG LKGRLEIEVTEEBELKHNKDDCWICIRGFVYNVSPYMEYHPGGE DELMRAAGSDGTFLDQVHRWVNYESMLKECLVGRMAIKPAVLK DYREEKKVLNGMLPKSQVTDTLAKEGPSYPSYDWFQTDLSLVTI /EHY*TEGYQFRLNNS*SSE*FLYSRNNY*GLLISYTPW/R*A MRFRKIFLCGL/CESVGKIEIVLQKKENTSWDFLGHPLKNHNSL IPRKDTGLYRKQCLISKEDVTHDTRLFCMLPEPSTHLQVPIGQ HVYLKLPITGTEIVKPYTPVSGSLLSEFKEPVLNNKYIYFLIK IYPTGLFTPELDRLQIGDFVSVSPEGNFKISKQFELEDLFLA AGTGFTPMVKILNYALTDIPSLRKVKLMFENKTEDDIIWRSQLE KLAFDKRLDVEFVLSAPISEWNGKQGHISPAALLSEFLKRNLDK SKVLVCICGPVPFTEQGVRLHDLNFSKNEIHSFTA
6948	104	58	PDGAHSFFPDEYFTCSSLCLSCGVGCKKSMNHGKEGVPEAKSR CRYSHQYDNRVYTKACYBRGEEVSVPKTSASTDSPWMGLAKY AWSGYVIECPNCGVYRSRQYWFQNDPVDTVRTEIVHVPWGT DGFLKDNNNAAQRLLDGMNFMAQSVSELSLGPTKAVTSWLTQDI APAYWRPNQSILSCNKCATSFKDNDTKHHCACGEGFCDSCSSK TRPVPERGWGPAPVRVCDNCYEAR/TRPVSCYRGTSGR*RRRRT QETVE
6949	152	4656	GLRLCLSRPLTRPGDSSVCGSAMASGAGGVGGGGGGKIRTRRCH QGPIKPYQQGRQQHQLSRVTESVKNIIVPGWLQRYFNKNEDVC

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			SCSTDTSEVPRWPKEDHLVYADEESSNITDGRITPEPAVSNT EEPSTTTSTAST\YPDVLTRVSLYRSHLNFMSLESALHCQPSTS SAFPIGSSGFSLVKEIKDSTSQHDDDNISTTSGFSSRASDKDIT VSKNTSLPPLWSPEAERSHLSQHTATSSKKPAFNLSAFGTLSP SLGNSSILKTSQLGDSPPFYPGKTTYGGAAAVRQSKLRNTPYQA PVRQMKAKQLSAQSYGVTSSTARRILQSLKMSPLADAKRIP SIVSSPLNSPLDRSGIDITDFQAKREKVDQYPPVORLMTPKPV SIATNRSVYFKPSLTPSGEFRKTNRIDKKCSTGYEKNMTPGQN REQRESGFSYPNFSLPAANGLSSGVGGGGGKMRRERHAFVASKP LEEEEMEGPVLFPKISLPITSSSLPTFNFSPEITTSSPSPINSS QALTNKVQMTSPSSSTGSPMFKFSSPIVKSTEANVLPPSSIGFTF SVPVAKTAELSGSSSTLEPIISSAHHVTTVNSTNCKKTPPEDC EGPFRPAEILKEGSLVDILKSPGPASPDKIDSVAQOPTATSPVY TRPAISSFSSSGIGFESLKAGSSWQCDTCLLQNKVTDNKCICAC QAAKLSPRDTAKQTGIETPNKSGKTTLSASGTGFGDKFKPVIKT WDCDTCVLQNKPEAIKCVACETPKPGTCVKRALTLTVVSESAET MTASSSSCTVTGTLGFGDKFKRPIGSWECSVCCVSNNNAEDNKC VSCMSEKPGSSVPTSSSSTVPVSLPSSGSLGLEKFKKPEGIWDK ELCLVQNKADSTKCLACESAKPGTKSGFGKFDTSSSSSNSAASS SFKFGVSSSSSGPSQTLTSTGNFKFGDQGGFKIGVSSDSGYINP MSEGF*FSKHIVGFKFGVSSSESKPEEVKKDSKNDNFKGLSFG SNFVFLTPFQFGVSNLQEBKKEELLKSSCAGFRFGTGVINSTR VPANTIVTSENKSSFNLTGTEKSVSVAPLKQCTSEAKKEEMPA TKGGFSFGNVEPASLPSASVFLGRTEEKQEPVTSTSLVFGEG KLTMKPKC\QPVFSFGEFQRTKDENSSTFSFMTKPKSEKE SEQPAKATFAGAQTNNTADQGAAPDLNLYNNSSSSSSTPAT AGGG\IFGSSSTSSNPPVATFVFGQSSNPSSS\AFGNTESSST SQSLFSSQDSKLATTSSTGTAVTPFVFGPGASSNNTTSGFQFG ATTTSSSAGSSSFVFGTGPSAPSPAFGANQPTTFGQSQGASQ NPPGFGSISSTALFPTGSGPAPPTFGTVSSSSQPPVFGQQPSQ SAFGSGTTPNSSSAFQFGSSTTNFNFTNNSPSGVFTTFGANSSTP AASAQPSGGGFPFNQSPAFTVGSNGKNVSSSGTSFSGRKIK TAVRRRK
6950	2585	411	PRPGSRSGLCRRAGERGAVRAGGLSRRTAE*IMDELHYQDTS DVPEQRDSKCKVKWTHEEDEQLRALVRQFQQDWKFLASHFPNR TDQQCQYRWRVLRVLPDLVKGPTKEEDQKVIELVKKYGTQKQWTL IAHLKGRLGKQCRERWHNHLNPEVKKSCWTEEDRIICEAHKV LGNRWAEIAKMLPGRTDNAVKNHWNSTIKRKVDGTGGFLSESKDC KPPVYLLLELEDKDLQSAQPTGEGQSSLLTNWPSVPPTIKEKEN SEELAAATTSKEQEPIGTDLDVVRTPEPLEEFPKREDQEGSP ETSLPYKWWVEAANLLIPAVGSSSLSEALDLIESDPDAWCDLSKF DLPEEPSAEDSINNSLVQLQASHQQQVLPPRQPSA\LVPSVTEY RLDGHTISDLSSRGELIPISPSTEVGGSGIGTPPSVLKRQRK RRVALSPVTENSTLSFLDSCNSLTPKSTPVKTLFPFSQSFLNF WNKQDTLELESPLTSTPVCSQKVVTIPLHRDKTPLHOKHAAF VTPDQKYSMDNTPHTPTFFKNALEKYGLKPLPOTPHLEEDLKE VLRSEAGIELIIEDDIRPEKQKRKPLRRSPICKKVRKSLALDIV DEDMKLMSTLPSLSLPTTAPSNSSSLTSGIKEDNSLLNGGF LQAKPEKAAVAQKPRSHFTTPAPMSSAWKTACGGTRDQFLMQE KARQLLGRLLKPSHTSRTLILS
6951	1940	239	AGPDDTMKRSQALYQQLSFLILALTEALAFATQEPSPRESL QVLPSGTPPGTMVTAPHSSSTRHTSVVMLTENPDGPPSQAAAFMA TPTPRAEGHPPT\TPSPPSLRQ*PPPILKAP/SSTGFAPAMAT TSSKPEGRPRGQAAPTILLTKPEGATSRPTTAPRRTTRRPPRF PGSSRKAGNSSRPVPPAPGGHSRSKEGQRGRNPSTPLGQKRF LGIFFQIYKGNFTGSVEPEPSTLTPRTPPLWGYSSSPQPTVAAT

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			TVPSNTSWAPTTTSLGPAKDKPGLRRAAQGGSTFTSQGGTPDA TAASGAPVSP/PSCPSAFSAPPPR*PTGWPQP**LLAYCYP\CT SRPLSTSSGVFTAATGPTPAAFDTSVSAPSQGITPQGAFTTPQAP THPSRVSESTISGAKEETVA\PSPP*PTGCPVLSPPQWYPQQAIS STAWSPPGPSLGGQQTSPMWRGTNRSTEPSA*ARWISPG*S WPSACPSPP\LCPADGVLHHEEEEDRQPEQPEAYGNNTTHPGT TFQQAC\RGAAPEIIPVPLKPLRTQLSEPRSPANGDYRDTGMVPC
6952	658	304	PESEGESEMTDRYTIHSQLEHLQSKYIGT\ATPTPPSGSG\CE PTPRLVLLHGLRPSQLLRHCGE*EQSASPLQLDGKDALWT ASRQARGELRLCLTTAVRGTSPPSVSPVCQSS
6953	1512	349	NWGKTRALASGKHVPFGKQTNPNKS/VHCDG*G**RRETTQDES FSPHFRGKMGVGV\KLEKELENTEQPVGNEG*EHEVTGNLNSD PLLELCQCPLCQLDCGSREQLIAHVYQHTAAVVSASYM\CPVC GRALSSPGSLGRHLLIHSEDRSNCAVCGARFTSHATFNSEKLP EVLNMESEFTVHNEGPPSAEKGDIAPSPFVYPAGILLVCNNCAA YRKLLEAQTPSVRKWALRRQNEPLEVRLQRLERERTAKKSRDN ETPEEREVRMRDRDREAKRLQRMQETDEQRARRLQDRDREAMRLKR AIETPEKRQARLIREREAKRLKRLKMDMMLRAQFGQDPSAMA ALAAEMNFFQLPVSGVELDSQLLGKMAFEEQNSSSLH
6954	819	1	PPPPFIIPSHPREAGT*AG*KRSGDSECSPPVEQ*A*TRAAQCN *PQR*RWTEGNSPQASAVATPGQGASPAAPRCTP*PSRRHRLP PGARPAG*AAPATPKPWLAPASAPQPGAAPLSPPAPPLIRTR *CAGAAARGPRRRDRSPRPTPGGCSWSEPRTPPAVSASAQTPS DAG*AGGR*GQRQRPSTGR*PPGVGGAGRSHRREGTIPGNPHPR AS*RAGWQR*PGP/REWGL*EPQGEEMSGPGGPGAPPNQVGSS VMQAMSTGI
6955	1968	782	PPGRRQVRAQVAGAPVGHGWGTRARQVKTGRRRARRTMPFLGQD WRSPGWSWIKTEDGWRKRCSCSOKLERENNHCNISHSIILNSED GEIFNNEEHEYASKKRKKDHFRNDTNTQSFYREKWIYVHKESTK ERHGYCTLGEAFNRDLDFSSAIQDIRRFNYVVKLLQLIAKSQSLTS LSGVAQKNYFNILDKIVQKVLDDHNNPRLIKDLLQDLSTLCIL /N*RSREVCISGKHQYLDLPIRNYSLRATTATGSSDD*ASE\NG LTLSDLPLHMLNNILYRPSDGDWIIITLGQVTPTLYMLSEDRQLW KKLCQYHFAEKQFCRHLILSEKGHIBWKLMYFALQKHYPKEQY GDTLHFCRHCSILFWKDSGHPCTAADPDSCTFPVSPQHFDLFLK F
6956	8605	3839	QTSTSI FASPTSPPVLGESVLQDNSFDLNNGSDAEQEEMETQSS DFPPSLTQPAPDQSSITQLHPATSPAVSPTTSPAVSLVSPSPAS PEISPEVCPAASVTVSPAVFSVSPASSAVLPVAVSLEVPLTASV TSPKASPVTSAAAFPTASPAKDVSSFLETTADVEEITGEGLT ASGSGDVMRRRIATPEEVRLPLQHGWRREVRIKKGSHRWQGETW YYGPGCKRMKQFPEVIKYLNRNVHVSRRHFSSPRMPVGDFF EERTTPEGLQWVOLSABEIPSRQAITGKRGRPRNTEKARTKEV PKVKRGRGRPPKVKITELNKTDRPLKKLEAQETLNEEDKAKI AKSKKKMRQKVQGECCQTTIQQARNKRQETKSLKQKEAKKKS KAEKEKGTQKEKLEKVKREKKEKVKMKKEEVTAKAPACKAD KTLATQRRLEERQRMILEEMKKPTEDMCLTDHQPLPDFSRVP GLTLPSGAFSDCLTIVEFLHSFGKVLGFDPAKDVPSLGVLQEG LCQGDLSLGEVQDLLVRLKALHDPGFPSYCSLKLIGKEKVEI PLTRDNVSEILRCFLMAYGVEPALCDRLRTQPFQAQPPQQA LAFVLVHLENGSTLIINEIDKLTESMSYRKNKWIVEGRRLRLKT VLAKRTGRSEVEEMEGPEECLGRRSSRIMEVTSMEEEEEES AAVPGRRGRRDGEVDATASSIPELERQIEKLSKRQLFFRKKLLH SSQMLRAVSLGQDRYRRRYWVLPYLAGIFVETEGNLVPEEVIK KETDSLKVAHAASLNPALFSMKMELAGSNTTASSPARARGRPRK

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			TKPGSMQPRHLKSPVRGQDSEQPPQAQLQPEAQLHAPAQPQPLQL LQLQSHKGFLEQEGSPLSLGQSQHDLSQSAFLSWLSQTQSHSSL LSSSVLTPDSSPGKLDPAQSPPEEPDEAESSDPQALWFI SAQMPNCAAPTTPPAVSEDQPTSPQQLASSKPMNRPSAANPCS PVQFSSSTPLAGLAPKRRAGDPGEMPOSPPTGLGQPKRRGRPSKF FKQMEQRYLTQLTAQPVPPMCSGWWIWDPEMLDAMLKALHPR GIREKALHKLHNKHRDFLQEVCLRPSADPIFEPROLPAFQEGIM SWSPKEKTYETDLAVLQWVEBLEQVRVMSDLQIRGWTCPSPDST REDLAYCBHLSDSQEDITWRGRGREGIAPQRKTTNPLDLAVMRL AALEQNVERRYLREPLWPTHEVVLEKALLSTPNGAPEGTTTEIS YEITPRIRVWRQTLERCRSAAQVCLCLGQLERSIAWEKSVNKVT CLVCRKGDNDDEFLLLCDGCDRGCHIYCHRPKMEAVEPEGDFWCTV CLAQQVEGEFTQKPGFPKRGQKRKSGYSLNFSSEGDGRRRRVLLR GRESAAGPRYSEEGLSPSKRRRLSMRNHSDLTFCETIILMEME SHDAANPFLEPNRPLVSGYRRIIKNPMDFSTMRELLRGGYTS SEEFADALLVFDNCQTFNEDDSEVGKAGHIMRRFFE\SRWEEF YQKQGSQSVRQGRWGTWHLPLPTFTQTKCHFLLMLPLPWQTVQV RYNPDF
6957	82	3514	HLIVAMPEPTKKEENEVPAPAPPPPEPSKEKEAGTTPAKDWTLY ETPPGEEQAKQANANSLILFIEKPQCGTVKVGEDITFIKAVKA BDLSEKPTINGSRKMDLASKAGKHLQLKETFERHSRVYTFEMQ IIKAKDNFAGNYRCEVYTKDKFDSFDFLEVHESGTTPNIDIR SAFKRSGEGQEDAGELDFSGLLKRRVQKQEEEPQVDVWELLKN TKPSEYBKIAFOYESPTCSGMLKRLKRSIREKKSAFAKILDP VYQVDKGRVRFFVELADPKLEVKNKNGQELRPSTKYIFEDTR CQSILNIDNCQMTDDSEYYVTAGDEKCESTELLVREPPIMVTQKL EDTTDYCGERVELECEVSEDDAQVKNFKNGEIIILVQTRYRIRV EGKKHILIEGATKADAADYSVMTTGGQSSAKLSVDLKLPLILT PLTDQTVNLGKEICLKCEISENIPGKWKNGLPVQESDRLKVVH KGRHKLVIDHALTEDEGDYVFAPDAYNVILPAKVHVIDPPKII LDGLDADNTVTIAGNKLRLIEPISGEPPKAMWSRGDKAIMEG SGRIRTESYPDSSTLVIDIAERDDSGVYHINLKN3AGEAHASIK VKVDFDPDPVPVPTVTEVGDWNCIMNWEPPAYDGGSPILGYFIE RKKKQSSRWMLNFDLCKETTFEPKMIIEGVAYEVRIFAVNA\I GISKPSMPSRPFVPLAVTSPPTLLTVDSVITFTVTMRWRPPDHI GAAGLDGYVLEYCFEGSTSAKQSDENGEAAYDLPAEDWIVANKD LIDKTKFTITGLPTDAKIFVRVKAVNAAGASEPKYYSQPILVKE IIEPKIHSPKHLKQTYIRRVGDRVILVIPFQGKPRPELTWKKD GAEIDKNQINIRNSETDTIIFIRKAERSHSGKYDLQVKVDKFVE TASIDIRIIDRPGPPQIVKIEDVWGRNVALTWTPPKDDGNAAIT GYTIQKADKKSMENLRVIEHIEBPVPHTELVIENEYYFRVFSN MCGLSEDATMTKESAVIARDGKIYKNPVYEDDFSEAPMFTQPL VNRLCHSGYMATLNCSSVRGNPKPKITWMKNKVAIVDDPRYRMFS NQGVCTLEIRKPSPYDGGTYCCKAVNDLGTVEIECKLEVKVIAQ
6958	274	1663	PRTSRVKTGSSQSSAMDFSVKVDIEKEVTCPICLELLEPLSL DCGHSFCQACITAKIKESVILSRGESSCPVCQTRFPQGNLRPNR HLANIVERVEKVKMSPEQEGQKRDVCEHHGKKLQIFCKEDGKVIC WVCELSQEHQGHQTFRINEVVKCEQKQLQVALQRLIKENQEAEB LEDDIRQERTAWKNYIQIBRQKILKGFNEMRVILDNEBQRELQK LEEGEVNVLDNLAAATDQLVQQRQDASTLISDLQRRLRGSSVEM LQDVIDVMKRSESWTLKKPKSVSKKLKSVFRVFDLSGMLQVLKE LTDVQYYWVDVMLNPGSATSNAISVDQRCVKTVRTCTFKNSNP CDFSAFGVFGCQYFSSGKYWEVDVSGKIAWILGVHSHISSLNK RKSSGFADPSVNVYSKVYSRYRPQYGYWVIGLQNTCEYNAFEDS SSSDPKVLTLFMAV\LPVVLGFS
6959	1	1469	SLVHVVEFGRGIEDFPYLFQTLTHCQQRICSVTQAGVQWCDHSS

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			LQPQTPLNQSSHLSSLSSRDYRMLSSFNEFWQDRFWLPENVT WTELEDGRGVPHPPQDLLAALPLALVLLAMRLAFERFIGLPLS RWLGVRDQTRRQVKPNATLEKHFLTEGHRPKPEQLSLLAAQCG LQQQTQRFRRRRNQDRPQLTKKFCESAWRFLFYLSFVQGLSV LYHESWLWAPVMCWDYRPNQLTSCPAADSEA\SLYWWYLLLELG FYLSLLIRLPFDVVRKGGGPPSSIKPRPHYDPPSTA\DFKEQVIH HPVAVILMTFSYSANLRLIGSLVLLLEDSSDYLLLEACKMVNYMQ YQQVCDALFLIFSFFVFFYTRLVLFPTQILYTTYYESISNRGPF GYFFNGLLMLLQLLHVFWSCLILRLMYSFMKKGQMEKDIRSDV EESDSSEAAAAQEPLQLKNGTAGGPRPAPTGGPRSRVAGRLTN RHTTAT
6960	387	2068	AKWAREKEMQEF\TRSF\RGPRDLSTLTHSTVRRRYLAHSGRS HLEPEEKQALKRLVEEPLKMQVDEASREDKLDLTKKGRPPT PCSDPERKRFRFNSESESGSEASSPDYFGPPAKNGVASRSHTEP KEENPRRA\SKAVEESSDEERQDRDLPAORGESESEEEKGYKKG TRKKPVVKKQAPGKASVSRKQAREESESEAEVQRTAKKVEGN KGTSLKSEQSESEBILAQKKEQREEEVEEEKEEDEEKGDWK PRTRNGRRKSAREERSCKQKSQAKRLLGDSDEEKEAASSG DDSGRDREPPVQRKSEDRTQLKGGKRLSGSSEDEEDSGKGEPTA KGSRKMARLGSTSGEESDLEREVSDEAGGPGQGERKNRSKKS SRKGRTRSSSSSDGSPKAGGKAGSGRRGEDHPAVMLRKYIR ACGAHRNYKKLLGSCCSHKERLSILRAELEALGMKGTPLGKCR ALKEQREEAEEVASLDVANIISGSGRPRRTAWNPLGEAAPPG LYRRTLDSDEERPRPAPPDWSHMRGISSDGESEN
6961	340	1646	RWSSPTMKPNFSLRLRIFNLCWGIPLYSKHRADRMRLGDFL NQESFDLALLEEVWSEQDFQYLRQLSPTYPAHHFRSGIIGSG LCVFSKHP IQELTQHIYTLNGPYMIHHDWFSKAVGLLVHL SGMVLNAYVTHLHAEYNRQDIYLAHRVAQAWELAQFIHHTSKK ADVLLCGDLNMHPEDLGCCLLKEWTGLHDAYLETRDFKSEEG NTMVPKNKYVSQQLKPFPPGVRIIDYVLYKAVSGFYISCKSFET TTGFDPHRGTPSLDHEALMATLFRHSPPOQNPSTHGP\AERS PL/MCVCLKEALDGSGLGMA\QARWWA\TFA\SYVIGLGL\LL LALLCVLAAGGGAGFAAILLWTPSVGLVLWAGAFYLFHVQEVNG LYRAQAEQLQVHLGRAREAQDLGPEPQLYALL\LGQQEGDRTEKQ
6962	340	1646	RWSSPTMKPNFSLRLRIFNLCWGIPLYSKHRADRMRLGDFL NQESFDLALLEEVWSEQDFQYLRQLSPTYPAHHFRSGIIGSG LCVFSKHP IQELTQHIYTLNGPYMIHHDWFSKAVGLLVHL SGMVLNAYVTHLHAEYNRQDIYLAHRVAQAWELAQFIHHTSKK ADVLLCGDLNMHPEDLGCCLLKEWTGLHDAYLETRDFKSEEG NTMVPKNKYVSQQLKPFPPGVRIIDYVLYKAVSGFYISCKSFET TTGFDPHRGTPSLDHEALMATLFRHSPPOQNPSTHGP\AERS PL/MCVCLKEALDGSGLGMA\QARWWA\TFA\SYVIGLGL\LL LALLCVLAAGGGAGFAAILLWTPSVGLVLWAGAFYLFHVQEVNG LYRAQAEQLQVHLGRAREAQDLGPEPQLYALL\LGQQEGDRTEKQ
6963	374	2618	RVTPILILKLLKPKTAENQKASEENITQPGSSAKPGLPCLNF EAVLSPDPALIHSTHSITNSHAHTGSSDCDISCKGMTERIHSIN LHNFNSVLETLNEQQRNRGHFCDVTVRIHGSMLRAQRCVLAAGS PFFQDKLLGYSDIEIPSVSVQSVQKLIDFMYSGVLRVSQSEA LQILTAAASILQIKTVIDECTRIVQNVGDVFPQIQDSGQDTPRG TPESGTSGQSSDTESGYLQSHPPQHSVDRIYSALYACSMQNGSGE RSFYSGAVVSHHETALGLPRDHMEDPSWITRIHRSQOMERYL STTPETHCKRKQPRPVRIQTLVGNIIHKQEMEDDYDYGCQRVQ ILERNESEBECTEDTQAEGETESEPKGESFDSGVSSSIGTEPDVS EQQFGPAARDSQAEPQTQPEQAAEAPAEGGPQTNQLETGASSPE RSNEVEMDSTVITVSNSSDKSVLQQPSVNTSIGQPLPSTCLYLIR QTETILTSNLRMPLTLTSTNTQVIGTAGNTYLPALFTTQAGSGPK



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			PFLFSLPQPLAGQQTQFVTVSQPGLSTFTAQLPAPQPLASSAGH STASGGQGEKKPYECTLCNKTFTAKQNYVKHMFVHTGKPHQCSI CWRSFSLKDYLIK\HMTHTGVRAVQCSCICNKRFTQKSSLNVM RLHRGEKSYECYICKKKFSKHTLLERHVALHSASNGTTPAGTTP GARAGPPGVVACTEGTTYVCSVCPAKFDQIEQFNDHMRMHVSDG
6964	1	178	SGRPFFFFFFNTDVYFIKKVTNRWTAGSSYKMTMRKSGIKILL QIFIG\NCSMFVLVI
6965	757	208	NVFIEPRIQGFMKTSAHPGQKHPDFSMGLLFPLLAALEVCSCGS SGLGYNLPQNH\GLGRNTLVLLGQMRRISPFLCLKDRSDFRF PQEKVEVSQQLKA\QAMSFYDVLQVFNFSHKALL\CCMEHDL PGPTPHFTSSAAGTPGDLGAGDGRRRRSWQWVI3GSTIALRRY PQESISTLE
6966	820	1867	IITALGVGMPCPCPCPGCMAGPRLFLTLALALELLGRAGGSQP ALRSRGATACRLDNKESESWGALLSGERLDTWICSLGLSMVG LSGVFPLLVIPLEMTMLRSEAGAWRLKQLLSFALGGLGNVFL HLLPEAWAYTCSASPGGEGSQLQQQQLGLWVZAGILTFALALE /HVPQQGGGDQPGPQQRPHCCCRRAQWRPLSGPAGCRARPCR GP\DIKVSGLYNLLANTIDNFTHGLAVAASFLVSKKIGLLTTMA ILLHEIPHEVGDFAILLRAGFDRWSAAKQLSTALGGLGAGFA ICTQSPKGVETAAWVLPFTSGGFLYIALVNVLPDLLEBEDPW
6967	162	633	GFLPFKYWILDLSASRMTDCNPMELSSMSGFEGSEINGFEG TDMKMRLEAEAVVNDVLFVNNMFVSKSLRCADDVAYINVEK ERNRYCLELTEAGLVVGYAFDQVDDHLQTPYHETVYSLDRTL\ SPAYREAFGR\LLQRLEALKRDGQS
6968	1	2265	RGGGGRGGPGARERERPGEPRTMEAAAGGRGCFQHPGLQKT LEQFHLSSMSSLGGPAAFSARWAQAYKKESAKEAGAAVPAV PAATEPPVHLPAIQPPPPVLPGLFFMPSDRSTERCETVLEGE TISCFFVGGKRLCLPQILNSVLRDFSLQQINAVCDELHIYCSR CTADQLEILKVMGILFFSAPSCGLITKTDALRLCNALLYGGAYP PPCKKELAASLALGLELSERSVRVYHE\CFGKCKGL\LVPELYS SPSAACTQCLD\CRLMYPPHKFVVHSHKALENRTCHWGF\DSA\ NWRAYILLSQDYTGKEEQARLGR\CLDDVKEKFDYGNKYKRRVP RVSSPEPASIRPKTDDTSSQSPAPSEKDKPSSWLRTLAGSNVS LGCVHPRQRLSAFRPWSPAVSASEKELSPILPALIRDSFYYSYKS FETAVAPNVALAPPAQKQVVSPPCAAASRAPEPLATCTQPRK RKLTVDTPGAPETLAPVAAPEDKDSEAEVEVESREEFTSSLS LSSPSFTSSSAKDLGSPGARALPSAVPDAAAPADAPSGLEAEL EHLRQALEGGLDTKEAKEKFLHEVVMRVKQEEKLSAALQAKRS LHQBLEFLRVAKKEKLEATEAKRNLKEIERLRAENEKMKMEA NESRLRLKRELEQARQARVCDKGCEAGRLRAKYSAQIEDLQVKL QHAEADREQLRADLLREREAREHLEK\VVK\ELQEQLWPRARPE AAGSEG\AAELEP
6969	1855	118	AGTMHGRLKVKTSBEEQAEAKRLEREQKLKYOSATQAVFQKRA GELDESVLELTSQILGANPDFATLWNCREVLLQLETOQSPEEL AALVKAELGFLESLRVNPKSYGTWHHRCWLLGRLPEPNWTREL ELCARFLEVDERNFHCWDYRRFVATQAAVPPAEELAFDLSLTR NFSNYSSWHYRSCLLPQLHPQPDGPGQRLPEDVLLKELELVQN AFFTDPNDQSAWFYHRWLLGRADPDALRCLHVSDEACLTVSF SRPLVGSMEILLMVDDSPILVEWRTPDGRNRPSHVWLCDLF AASLNDQLPQHTFRVIWTAGDVQKECVLLKGRQEGWCRDSTTDE QLFRCLESLVEKSTVLQSELESCKELQELEPENKWC\LTITLLM RALDPLLYEKETLQYFQTLK\AWDPKRTY\LDDLRSKFLENS VLKMEYAEVRVLHLAKDLTVLCHLEQLLVTHLDLSHNLRLTL PPALAAALRCLEDPPT\VLQASDIAIESLDGVTNLPRQLLELL CNRLQQPAVLQPLASCPRLVLLNQLQGNPLCQAVGILEQLAELL PSVSSVLT

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6970	3	1528	SFPPLSSPSAVGEGKVAVAAPCPGRSECARAKMAYIQLEPLNE GFLSRISGLLLCRWTRCRHCCQKCYESSCCQSSSEDEVEILGPFPA QTPPWLMASRSSDKDGSVHTASEVPLTPRTNSPDGRSSSDTS KSTYSLTRRISSLESRRPSSPLIDIKPIEFGLVLSAKKEPIQPSV LRRTYNPDYFRKFEPHLYSLSDNSDDVSLTDEELSKYQLCM LHFSTQYDLLHNHLTVRVIEARDLPPPISHDGSQRQDMAHNSPYV KICLLPDQKNSKQTKGVRKTQKPVFEERYTFEIPLEAQRRTLL LTVVDFDKFSRHCVIGKVSVPCEVDLVKGGHWWKALIPSSQNE VELGELLLSLNLYPSAGRLNVDVIRAKQLLQTDVSGQSDPFVKI QLVHGLKLVKTKKTSFLRGTDIPFYNESFSFKVPQEELENASLV FTVFGHNKSSNDFIGRIVIG\QYSSGP\SEPNHWRRLNTHRT AVEQWHLRSRAECDRVSPASLEVT
6971	37	3702	ACFYVPGSRSFKLIPRHGLVMGRSGKLPESGVSAKLKRWKKGHS SDSNPAICRHRQAARSRRFFSRPSGRSDLTVDVAKLHNELQSGSL RLGKSEAPETPMEEAEVLTEKSSGTFGLSDCTNVTFSKVQ RFWESNSAAHKEICAVLAATEVIRSQGGKETETEFYFAALIRKA AQHGVCSVLKGSEFMFEKAPAHHPAAISTAKFCIQEIEKSGGSK EATTTLHMLTLLKDLLPCFPEGLVKSCSETLLRVMTLSHVLVIA CAMQAFHSLFHARPGLSTLSAELNAQIITALYDVVPSENDLQPL LAWLVMEKAHINLVRQLQNDLGLGHLPRFFGTAVTCLLSPHSQV LTAATQSLKEILKECVAPHMADIGSVTSSASGPAQSVAKMFRV EEGLTYKFHAAWSSVQLLCVFFEACGRQAHVPMRKCLQSLCDL RLSPHFPHTAALDQAVGAAVTSMGPEVVLQAVPLEIDGSEETLD FPRSWLLEPVIRDHVQETRLGFFTTYFLPLANTLKSAMDLAQAG STVESKIYDTLQWQMTLLPGFCTRPTDVAISFKGLARTLGMAI SERPDLRVTVCOALRTLITKGCQAEADRAEVSRAKNFLPIFN LYGQVPAAGDTPAPRAVLETIRTYLTITTDQLVNSLLEKASEK VLDPASSDFTRLSVLDLVVALAPCADEAAISKLYSTIRPYLESK AHGVQKAYRVLEEVCAAPQGGALFVQSHLEDLKKTLTLDLSRS TSSPAKRPRKCLLHIVRKLAEHKEFITALIPEVILCTKEVSV GARKNAFALLVEMGHAFRLFGSNQEEALQCYLVLIYPGLVGAVT MVSCSILALTHLLFEFKGLMGSTVEQLLENVCLLLASRTDRDV KSALGFIKVAVTVMVDAHLAKHVQLVMEATGKLSDDMRHRFRMK LRNLFT\KFIPK\FGILTGWKKAVGPKEYHRVLVNIKABARAK RHRALSQAABVEEEEEEEEPACQKGDSEETLADSEBEDNE EEERSRGKEQRKLARQSRRAWLKEGGDEPLNLDPKVAQRVLA TQPGPGRGRKKDHSFKVSADGRLIIRREADGNKMEEEBAGKGD EEMADPMEDVIIRNKKHQKLKHQKEAEEEELEIPPQYQAGSGGI HRPVAKKAMPGAEYKAKKAGDVKKGRPDPIYIPLNRSKLN RKKMKLQGGQFKGLVKAAGRSQVGHKNRRKDRRP
6972	2179	973	PGGAILLPLWRRTRPREATVPRGAAQRGRARSAGRIIPSSQSPS PAEAGGATRSPPPRPPRPARPPGPSAPPLLRSDAGPGATVSAAA AAATERARRGATMGAQLSTLGHMVLPVWFLYLLMKLFQRSTP AITLESPDIKYPLRLIDREIISHDTRFRFALPSPQHILGLPVG QHIYLSARIDGNLVVRPYTPISSDDDKGFVDLVIKVYFKDTHPK FPAGKMSQYLESQIGDTIEFRGFSGLVYQKKGKFAIRPDKK SNPIIRTVKSVMGIAAGTGITPMLQVIRAIMKDPDDHTVCHLLE ANQTEKDILRPELEELRNKHSARFKLWYTLDRAPAWDYGQG\ FVNEEMIRDHLPPPE\EEPLVLMCGPPPMIOYACLPLN\DHVGH PTERCVF
6973	1	1964	LQPRCAHRLRAQKCGRPAPGVDMVLCVIGKLLHKRVVLASA SPRQEIILSNAGLRFEVVPKFKKLDKASFATPYGYAMETAKQ KALEVANRLYQKDLRAPDVVIGADTIVTVGGLLEKPVQDAY RMLSRFE/SGREHSVFTGVAIVHCSSKDHQLDTRVSEFYETKV KFSRLSEELLWEYVHSGEPMKAGGYGQALGMLVESVHGDFL NVVGFPNLNHFCKQLVKLYYPPRPEDLRRSVKHDSIPAADTFBDL

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			SDVEGGGSEPTQRDAGSRDEKAEAGEAGQATAEAECHRTRETLP PFFTRLLELIEGFMLS KGLLTACKLKVFDLLKDEAPQKAADIAS KVDASACGMRLLDICAAMGLEKTEQGYSTETANVYLASDGE YSLHGFIMHNNDLTNLFTYLEFAIREGNTQHRRALGKKAEDLF QDAYYQSPETRLRFMRAMHGMTKLTACQVATAFNLSRFSSACDV GGCTGALARELAREYPRMQVTVFDPDIIELAAHFQPPGQAVQ IHFAAGDFFRDPLPSAELYVLCRIHLDWPDCKVHKLSSRVAESC KPGAGLLLVETLLDEEKRAVQALMQSLNMLVQTEGKERSIGEY QCLLELHGFGHQVQVHLGGVLDAIL\PPKWPPAQACSL
6974	3082	2172	RSCAAFASFASRPFLELFAPPGSHRSPPGRGVATSAQCALSVRK LLAARFGLGTYQATMVYKTLFALCILTAGWRVQSLPTSAPLSV SLPTNIVPPTTIWTSSPQNTDADTASESNGTHNNSVLPVTASAP TSLLPKNISIESREEEITSPGSNWEGTNTDPSPGFSSTSGGVH LTTTLEHSLGTPEAGVAATLSQSAAPPTLISQAPASSPSSL STSPPEVFSASVTINHSSTVTSTQPTCAPTAPESPTSESSDHT PTSHATAEPVPQEKTPPTTVSGKVMCELIDMET\PPFPFG
6975	2	500	RPRPTVHCCKWALKLETAMETLINVFHAHSGKEGDKYKLSKKEL KELLQTELSGFLDVKELML*ATEALKTFEEA*KSPIIQCSSRS SLPPAPQPPPYL*LSAVPFFIHLPLPLPPQAQKDVDAVDKVMK BLDENGDEVDQFQYVVLVAALTVCNFFWENS
6976	1216	970	GCQL*VAYGTENSPTFAHFPEDTVEQKAESVGRIMPHEART MNMEAGTLAKLNTPGELCIRGYCVMLGYWGEPPQKTEEAVDQDKW YWTGDVATMNEQGFCIKVGRSKDMIIRGGENIYPAELEDFFHTH PKVQEVQVGVKDDRMGEEICACIRLKDGBETTVEEIKAFCKGK ISHFKIPKYIVFVTNYPLTISGKIQFKLREQMERHNL*IKQQ ACPGRLA
6977	1298	588	SLFINTNLLSNQIRKTSFGMCSEPISDNTEDQKGLKLTDPFA*R ANKKSKHHVNGNRTVEPFPEGTQMAVFGMCGFNGAERKFWVLKG VYSTQVGFAGYTSNPTYKEVCSEKTGHAEVVRVYQPEHMSFE ELLKVFWEHNDPTQGMROGNDHGTQYRSIYPTSAKQMEALSS KENYQKVLSEHGFGPIITTDIREGQTFYAAEDYHQYLSKNPNGY CGLGGTGVSCPVGIKK
6978	3	242	SFFPRDSRRRCCKGSSLRITAVAMVLSKBAKQRLQQLFKGSQ FAIRWGFIPLVILYLGFKRGADPGMPEPTVLSLLWG
6979	3917	1146	DEARVRGEAAVAAAILSRCRHWSGPPFPFSPDRKGLRGTEPWE AGPGSGATPGARAMDVRLKVNELREELQRRGLDTRGLKTELAE RLQAALAEAEPPDERELDADDEPGRPGHINEEVELEGSELEGT AQPPPPGLQPHAEPGGYSGPDGHYAMDNIITRONQFYDTQVIKQE NESGYERRPLEMEQQQAYRPEMKTEMKQGAFTSFLPPEASQLKP DRQQFQSRKRPYEENRGRGYFEHREDRRGRSPQPPAEDEDDFD DTLVAIDTYNCDLHFKVARDRSSGYPLTIEGFAYLWSGARASYG VRRGRVCFEMKINEEISVKHLFPSTEDPHVVRIGWLSLSCSTQL GEEPFSGYGGTGKSTNSRFENYGDKFAENDVIGCFADFECGN DVELSFTKNGKWMGIAFRIQKEALGGQALYFHLVKNCAVEFNF GQRAEPYCSVLPGFTHIHLPLSERIRGTGPKSKAECBILMMV GLPAAGKTTWAIKHAASNPSKKYNILGTNAIMDKMRVMGLRRQR NYAGRWDVLIQQATQCLNRLIQAARKKRNIIIDQTNVYVYSAQR RKMRPFEGFQKAIVICPTDEDLKDRITIKRTDEEGKDVDPDAVL EMKANFTLPDVGDFLDEVLFIELQREEDKLVRQYNEEGRKAGP PPEKRFDRNGGGGFRGRGGGGGFQRYENRGPNGNRRGGFQNRGG GSGGGGNYRGGFNRRGGGGYSQNRWGNNRDNNNSNNRGSYNRA PQQQPPPPPPPPPPPPPPPPPPPSYSPARNPPGASTYNKNSNI PGSSANTSTPTVSSYSPQSFQFFPSTFQPSYSQPPYNGGYSQ GYTAPPPPPPPPPAYNYGSYGGYNPAPYTPPPPTAQTYPPQPSY NQYQQYAAQWNQYQYQNGQWPPYQYNYDYGSYSNTQGGTSTQ GTRGRKTRVAAVSTRRRTGNMQKLQTRSFAMSLSDPGLGYHPT
6980	1	420	

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			CWTLRWPLCSLHALHVFHCLFSSRLGTPVSPRLAMDPCNSCEA GGSCACAGSCCKCKCKCTSCCKSCCSCPLGCAKCAQGCICKGA SEKCSCCA
6981	10	1054	PGRGFRRLRPAFAARGVFQGGGLGQAKQARTRACAALPTEHPS APRLLEPQGVFSLFPPPPGPPWPNMILTKAQYDEIAQCLVSVPT RQSLRKLKQRFPSQSQAATLLSIFSQEQKHKKRTHAKHHTSEA I ESYYQRYLNGVVKNGAAPVLLDLANEVDYAPSLMARLILERFLQ EHEETPPSKSIINSMLRDPSPQIPDGVLANQVYQCTVNDCCYGPL VDCIKHAIGHEHEVLLRDLLEKNLSFLDEDLRAKGYDKTDF ILQVPVAVEGHIHWHIESKASFGDECSHHAYLHDQFWSYWNRF PGLVIYVWGFQELDCNRERGILLKACFPNTNIVTLCHSIA
6982	153	1285	FPQDCSAPAAPGLAGSEPRRLRAYRRRRQRARGLKRVAVLWAPP PSLLQGLQGWNAQAPVDGTGLGEDSRASSPMIQNSRPSLLQPDV GDTVETLMLHPVIKAFLCGSISGTCSTLLFOPLDLLKTRILQTLQ PSDHGSRVGMALAVLLKVVRTESLLGLWKGMSPSIVRCVPGVGI YFGTLYSLKQYFLRGHPPTALESVMLGVGSRVAGVCMSPITVI KTRYESGKYGYESIYAALRSIYHSEGRGLFSGLTATLLRDAPF SGIYLMFYNQTKNIVPHDQVDATLIPITNFSCGIFAGILASLVT QPADVIKTHMQLYPLKFQWIGQAVTLIFKDYGLRGFFQGGIPRA LRRTLMAAMAWTVYEEEMAKMGLKS
6983	82	773	BMSFLQDPSFFTMGMWSIGAGALGAAALALLANTDVFLSKPQK AALEYLEDIDLKLEKEPRTFKAKELWEKNGAVIMAVRRPGCFL CREEAADLSSLSKMLDQLGVPLYAVVKEHIRTVDKDFQPYFKGE IFLDEKKKFFYGPQRRKMMFMGFIRLGWVWNFFRAWNGGFSGNLE GEGFILLGGVFPVVGSGKQGIILEHREKKEFGDKVNLSVLEAAKMI KPQTLASEKK
6984	1845	1282	GGRSAYSLPAGSLPRVPATAAAKMASGVQVADEVCRIFYDMKVR KCSTPEEIKRKKAVIFCLSADKKCIIVEEGKEILVGDVGVTIT DPFKHFVGMLEPKDCRYALYDASFETKESRKEELMFFLWAPELA PLKSKMIYASSKDAIKKKFQGIKHECQANGPEDLNRACTAEKLG GSLIVAFEGCPV
6985	1887	1324	RRTAGIYPCFPKPGRTRHALCSVLLLLLTGQLAFDDFCESCAMM WQKYAGSRRSMPLGARILFHGVFYAGGFAIVYYLIQKFHSRALY YKLAVEQLQSIPEAQEALGPPLNIHYLKLIDRENFVDIVDAKLG IPVSGSKSEGLLYVHSSRGPFQRWHLDEVFLELDKDGQIPVFK LSGENGDEVKKE
6986	642	1350	YHLYFKMGDPNSRKKQALNRLRAQLRKKKESLADQDFDKMYIAF VFKEKKKKSALFEVSEVIPMTNNYEENILKGVDRSSYSLESSL ELLQKDVVQLHAPRYQSMRRDVIGCTQEMDFILWPRNDIEKVC LLFSRWKESDEPFRPVQAKFEFHGHDYEQFLHVLRSRKDKTGIV VNNPNQSVFLFIDRQHLQT'PKNKATIFKLCISICLYLPQEQOLTHW AVGTIEDHLRPFYMPPE
6987	1623	341	LEAAEKASRAFKEQRQRTDSKNYETENWSPQKSQRRYDMYNTAC FLGEIEVGLYTIQILQLTPFFHKENELSKKHMVQFLSGKWITIP DPRNECYLALSFTSHLKNLQSDLKRCDFDIDYMLVLMKMYTQ KEIABIMLSKKVSRCFRKYTELFCFLDPCLLQSKESQLIQEENC RKKLEALRADRFAGLLEYLNPNYKDATTMESIVNEYAFLQONS KKPMTNEKQNSILANIILSCLPKNSKLIQPLTLTKQLREVLFQ VGLSHQYPGPYFLACLFWENQELDQDSKLEKYVSSLNRSFR GOYKRMCRSKQASTLFYLGKRKGLNSIVHKAKIEQYFDKAQNTN SLWHSBGDVWKKNEVKDLLRLTGQAEGLISVEYGTBEKIKIPV ISVYSGPLRSGRNIERSFYLGFSIEGPPGL
6988	3	689	TQLLRRPAVFGSAASGIRSGLWSASSGHWCAPAAGRAHAPVPR LVRGLGAASTAAPQDAQTGPQPMPRADCMRHLPHYFCRGQVVRG FGRGSKQLGIPTANFPEQVVDNLPADISTGIYGWASVSGSDVH KMVVSIGWNPYYKNTKKSMETHIMHTFKEDFYGEILNVAIVGYL

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			RPEKNFDSLESLSAISAIQGDIEEAKKRLLEPEHLKTIKEDNFFQVS KSKIMNGH
6989	2	1118	LMPSDRPLSPSTHASAGSHCHAPPTTARRAFPIPFSGSKSNMATI KDQLIYNLLKEEQTPQNKITVVGVGAVGMACAISILMKDLADEL ALVDVIEDKLGEMMDLQHGSLFLRTEKIVSGKDYNTANSKLIV IITAGARQQEGESRLNLVQRNVNIFKFIIPNVVKYSPNCKLLIV SNPVDILTIVAWKISGFPPKNRVIGSGCNLDSARFRYLMGERLGV HPLSCHGWVLGEHGDSSVPVWVGSMNVAGVSLKTLHPDLGTDKDK EQWKEVHKQVVESEYEVIKLKGYSWAIGLSVADLAESIMKNLR RVHPVSTMIKGLYGIKDDVFLSVPCILGQNGISDLVKVTLTSEE EARLKKSADTLWGIQKELQF
6990	719	258	THASGMASVVLALRTRTAVTSLSPFPATALAVRYASKKSGGSS KNLGGKSSGRRQGIKKMEGHVHAGNIATQRHFRWHPGAHVGV GKNKCLYALEEGIVRYTKEVYVPHPRNTEAVDLITRLPKGAVLY KTFVHVVPKPEGTFLKLVAML
6991	169	451	RRSSDFHNPGLSRPVSRLRNHHQVICSTKNKRRNPKKIAYLL SLLMTNLNPNSTENQPVDAWAFITLDQEFITYACVEGTGCLF CGRHVH
6992	944	510	RQAPGCSLALRQVRQVYCGLVRAPOVQTRPLSSRFVERRGALY RSPFMNQENPPYPGPGPTAPYPPYPPQPMGPGMGGPYPPPGGY PYQGYFQYQWQGGPQEPKTTVYVVEDQRRDELGPSTCLTACWT ALCCCLWDMLT
6993	1	374	QWCVTCPOHNARQGPVPPGIQAYGAAPFEDLQVDFTEMKCRG DRVWIKNWNVASLCLWKGPPQTVVLSPPPTAVKVEGIPAWIHSH VKPAARETWEARPSDNPFRVTLKKTTSPPAPVTPGS
6994	346	1100	QWPEKDPVMAASSISSPWGKHVFKAILMVLVALILLHSALAQSR RDPAPPQQKREAPVDVLTQIGRSVRGTLDWIGPETMHLVSES SSQVWLWAISSAISVAFFALSGLAAQLNALGLAGDYLAQGLKLS PGQVQTFLLWGAGALVYVWLLSLLGLVLALLGRILWGLKLVIF LAGFVALMRSVPDPSTRALLLALLILYALLSRLTGSRASGAQL EAKVRGLERQVEELRWRQRAAKGARSVEEE
6995	144	1346	GSVAVGLSGIMAAQKDLWDAIVIGAGIQCCFTAYHLAKHRKRL LLEQFFLPHISRGSSSHGQSRIIRKAYLEDFTYRMHECYQIWAQL EHEAGTQLHRQTGLLLGMKENQELKTIQANLSRQRVEHQCLSS BELKQRFPNIRLPRGEVGLLDNNGGVIYAYKALRALQDAIRQLG GIVRDGEKVVVEINPGLLVTVKTTSSSYQAKSLVITAGPWTNQLL RPLGIEMPLQTLRINVCYWRMVPGSYGVSAFPCLWLGLCPH HIYGLPTGEYPGLMKVSYHHGNHADPEERDCPTARTDIGDVQIL SSFVRDHLPLDKPEPAVIESCMYTNTPDEQFILDHRPKYDNIVI GAGFSGHGFKLAPVVGKILYELSMKLTSPSYDLAPFRISRFPISLG KAHLL
6996	543	1942	ETANAEAAARKSAMDWKEVLRRLATPNTCPNKKKSEQELKDEE MDLFTKYYSEWKGGRKNTNEFYKTIIPRFYVRLPAENEVLLQKLR EESRAVFLQRKSRELLDNEELQNLWFLLDKHQTPPMIGEAMIN YENFLKVGEEKAGACKQFFTAKEVAKLLHTDSYGRISIMQFFNY VMKRVWLHQTRIGLSLYDVAGQGYLRESDLNENILELIPTLFQL DGLEKSFYSFYVCTAVRKFFFLDPLRTGKIKIQDILACSFLLD LLELRDEELSKESQETNWFSAAPSALRVYGYLNLDDKHNGMLSK BELSRYGTATMTNVFLDRVFOECLTYDGENMDYKTYLDFVLALEN RKEPAALQYIFKLLDIENKGYLNVFSLNYFFRAIQELMKIHGQD PVSFQDVKDEIFDMVKPKDPLKISLQDLINSNQGDVTVTILIDL NGFWTYENREALVANDSENSADLDDT
6997	370	1104	AMELTFILRLAIYILTFFPLYLLNPLGLWSWICKKWFFYFLVRF TVIYNEQMAKKRELFSNLQEFAGPSGKLSLLEVGCGTGANFKF YPPGCRVTCIDPNPNFEKFLIKSIAENRHLQFERFVVAAGENMH

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			QVADGSVDVVCTLVLCVKNQERILREVCRVLRPGGAFYFMEH VAAECSTWNYFWQQVLDPAWHLLFDGCNLTRESWKALBRASFSK LKLQHIQAPLSWELVRPHIYGYAVK
6998	2	616	FVSRALLRVRSRRHFAEERAAPGRFEDAPTECPGATNCPPELWC SHLPVVPYAPPTMESRGKSASSPKPDTKVQVTTAKVPPAADGK APLTKPSKKEAPAEKQPPAAPTAPAKKTSKADPALLNHNHN LKPAPTVPSSPDATPEPKGPDGAEEDEASGGPGGRGPWSCEN FNPILLVAGGVAAIALILGVAFLVRKK
6999	14	1591	GRAGACSRDRTAMSTIEISSDVIRLLMQYLKENS LHRALATLQE ETTVSLNTVDSIESFVADINSGHWDTVLQAIQSLKLPDKTLIDL YEQVVLLELIELRELGAARSLLRQTDPMIMLKQTQPERYIHLNEN LARSYFDPREAYPDGSSKEKRRAAIAQALAGEVSVPFSSRLMAL LGQALKWQQHQGLLPPGM <sup>1</sup> IDLFRGKA AVKDVEEEKFFQLSRH IKFGQKSHVECARFSPDGQYLVTGSVDGFIEVWNFTTGKIRKDL KYQAQDNFMMDDAVLCMCFSRDTEMLATGAQDGKIKVWKIQSG QCLRRFERAHSKGVTCLSFSKSSQILSASFQDTIRIHGLKSGK TLKEFRGHSSFVNEATFTQDGHYIISASSDGTVKIWNMKTECS NTFKSLGSTAGTDITVNSVILLPKNPEHFVVCNRSNTVVMNMQ GQIVRSFSSGKREGGDFVCCALSPRGEWIYCVGEDFVLYCFSTV TGKLERTLTVHEKDVIGIAHHPHQNLIATYSEDGLLKLWKP
7000	2	827	GPVVVLELMESEGPPESESEFFSQREBENEBAEQEPETGP KNPLLQPALTGDEGLQKIFEDPENPHHEQAMQLLLEEDIVGRN LLYAAACMAGQSDVIRALAKYGVNLNEKTTRGYTLLHCAAAGRL ETLKALVELDV DIEALNFRERARDVAARYSQTECVFELDWADA RLTLKKYIAKVSLAVTDTEKSGSKLLKEDKNTILSACRAKNEWL ETHTEASINELFEQRQQLLEDIVTPIFTKMTTCQVKSAKSVTSH DQKRSQDDTSEN
7001	2056	844	RRCLIIAFLKGCFFIYFIFIFETEFLLSCCPGWSAVAQSRILAN FASQVQAIFILPKDSQVGPVVKSEAPKRALYESVFGSGEIGCP TSPKRLCIRPSEPVDAVVVSVKHDPPLPLPEANGHRSTNSPTI VSPAIVSPTQDSRPNMSRPLITRSPASPLNNOGIPTPAQLTKSN APVHIDVGGHMYTSSLATLTYPESRIGRLFDGTEPIVLDLSLKQ HYFIDRDGQMFRYILNFLRTSKLLIPDDFDYLLYEEAKYFQL QPMLEMERWKQDRETGRFSRPECCLVVRVAPDLGERITLSCGDK SLIEEVFPFEGDVMCNSVNAGWNHDS THVIRFPLNGYCHILNSVQ VLERLQQRGFIEIVGSCGGGVDSSQFSEYVLRRLRRTPRVPSVI RIKQEPDL
7002	1043	498	PMPSSTRWTS*TYTDTSSAWACRFTTGTCT*TAAPGPVVRWNP TPCSRHQSRRLTCWCSTSRPCGR*GGLCVRTAPTRPTTSASSS SWTSAGTSWPAGRRTGTATSGTATTTSVWFGCGTRMWSTQWSSV PRSRSCSRPATTTPSKPGAPHAPCASSRHLAHLAPSSPGLPA RGAEVC
7003	818	61	QGRFRAFCWQDFLQPPGMRLSALLALASKVTLPPhyryGMSPP GSVADKRKNPPWIRRRPVVVEPISDEDWYLCFGDTVEILEGKDA GKQKVVQVIRQRNWWVVGGLNTHYRYIGKTM DYRGTMIPSEAP LLHRQVKLVDPMDRKPTIEWRFTAGERVVSTRSGRIIPKPE FPRADGIVPETWIDGPKDTSVEDALERTYVPCCLKTLQEEVMEAM GIKETR\NTRRSIGIEPGAEOQLLPNFCPSLEG
7004	121	2285	FLLPVLTSSRLRQPAVPHARLGGVEPAAMKSARAKTPRKFTVKK G\PKRTLKTQLG/YICRVRPLGFPDQECCEIVINNTTVQLHTPE GYRLNRNGDYKETQYSFKQVFGTHTTQKELFDVVANPLVNDLIH GKNGLLFTYGVTSKGKTHMTGSPGEGGLLPRLCDMIFNSIGSF QAKRYVFKSNDNRNSMDIQCEVDALLERQKREAMPNPKTSSSRQ VDPEFADMITVQEFCKAEVEDEDSVYGVFVS YIEIYNNYIYDLL EEVFPDPINPNLHNLNCFVKIKNHNMYVAGCTEVEVKSTEEAF VFWRCQKKRRIANTHLNRESSRSHSVFNILKVQAPLADAGDNVL

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			QKEQITISQLSLVDLAGSERTNRTRAEGNRLREAGNINQSLMT LRTCMDVLRNQMVGYNKMVPYRDSKLTFLPKNYFDGEGKVRMI VCVNPKAEDYEENLQVMRFAEVTQVEVEVARPVDKATCGLTPGRR YRNQPRGP\IGNEPLVTDVVLQSFPLPSCETILDINDEQTLPR LEALEKRHNLRQMMIDEFNKQSNAFKALLQEFDNVLSKENHM GKLNEKEKMISGQKLEIERLEKKNKTLEYKIEILEKTTTIYEED KRNLQOELETQNKQKQFSDKRRLEARLQGMVETETMKWEKEC ERRVAAKQLEMQNKLWVKDEKLQKKAIVTEPKTEKPERPSRER DREKVTQRSVSPSPVPSYL
7005	63	876	RNMALYQRWRCLRLQGLQACRLHTAVVSTPPRWLAERLGLFEEL WAAQVKRLASMAQKEPRTIKISLPGGCKIDAVAWNTTPYQLARQ ISSTLADTAVAAQVNGEPYDLERPLETDSDLRFLTFDSPEGKAV FWHSSTHVLGAAAEQFLGAVLCRGPSTGYGYHDFLGGKERTIR GSELPLVERICQELTAAARPFRRLEASRDQLRQFLKDNPFKLHL IEEKVTGPTATVYGCGLTVDLCCGPHLRHTGQIGGLKLLSNSSS LWRSSG
7006	22	898	NAFGRHSTAVKMAAAWLQVLPVILLGLGAHPSPLSFFSAGPAT VAAADRSKWHIPISGKNYFSFGKILFRNTTIFLKFDEGPCDLS LNIITWYLSADCYNETYNFAEEVELYLEKLKEKRLSGKQTS SKLFCQNCSELFKTQTFSGDFMHRPLPLGKQEAENGNTNLTFIG DKTAMHEPLQWQDAPYIFIVHIGISSKESKENSLSNLFMT VEVKGPYEYLTLEDYPLMIFMVMCIVYVLFVGLWLAWACSACWYR DLLRIQFWIGAVIFLGMLEKAVFYAGFQ
7007	2	1001	AMTVSGPGTPEPRPATPGASSVEQLRKEGNELFKCGDYGGALAA YTQALGLDAPQDQAVLHNRRAACHLKLEDYDKAETASKAIEK DGGDVKALYRRSQALEKLGRLDQAVLQLRCVSLPKNKVFQEA LRNIGGQIQEKVRYMSSTDAKVEQMFQILLDPEEKGTGKQKAS QNLVVLAREDAEAKIFRSNGVQLLQRLDMGETDMLAALRTL VGICSEHQSRIVATLSILGTRRVVSLGVESQAVSLAACHLLQV MFDALKEGVKKGFRGKEGAIIVGEWKQVWGLLDVTVMMEGMLSQ PGQFFGQTCSCRLFGIRFGDIILL
7008	70	1478	CRSALGHERPPPAHLPGGRRLQTCPRSCRWLGRPPSGLPPGPR SPPPLAGPGQKMWQKPAELQGFHRSEFGQNPPELAFSLQPDH GDSDFGLQCSARFMPASQPIDIPDAKKRGGKKRGRATDSFSC RFEDVYQLQEDVLGEGAHARVQTCINLITSQBYAVKIEKQPGH IRSRVFREVMELYQCQGHNVLELIEFFEEEDRFYLVFEKMRGG SILSHIHKRRHFNELEASVVQDVASALDFLHNKGIAHRDLKPE NILCEHPNQVSPVKICDFDLGSGIKLNGDCSPISTPELLTPCGS AEYMAPEVVEAFSEESTYDKRCDLWSLGVILYLLSGYPFVVG RCGSDCGWDRGEACPAQNMLFESIQEGKYEFDPKDWAHISCAA KDLISKLLVRDAKQRLSAAQVLQHPVWQGCAPENTLPTPMVLQR WDSHFLLPPHPCRIHVRP3GLVRTVTVNE
7009	1	626	ARQLRNSWVDDFVAAPLIPLSQOITPGNSLYESYYKQVDPAYTG RVGASEAALFLKKSGLSDIILGKIWDLADPEGKGLDKQGFYVA LRLVACAQSGHEVTLSNLSMPPPKFHDTS55PLMVTTPSAEAH WAVRVEEKAKFDGIFESLLPINGLLSGDKVKPVLNMSKLPDLVL GRVWDLSDIDKDGHLVRDEFAVAMHLVYRALE
7010	79	571	SHTTRAVVPETLLSPCLPLGGGTAMSGGEQKPERYYVGVVGT GSVRAALVDQSGVLLAFADQPIKNWEPQFNHHEQSSEDIWAAC VVTKKVVQIDLNQIRGLGFATCSLVVLDKQFHPLPVNQEGDS HRNVIMWLDHRAVSQVNRINETHKSHVLYYVGG
7011	3	994	RIQTLNQNQSQTQPLKTPPAVLQPIAQTTFGVQTQPPQPSL LQAQISAASITPLLQTPQPLQPPQKAGLLQPPVRIVSQPPQ ARRLDPPSRFSGRNDRGDQVPRKDDRSRERERERRRSRERSPQ RKRSRERSPRRERERSPRRVRVVPRTYVQFSKFLDCPC5CDMM ELRRRYONLYIPSDFFDAQFTWVDAFELSRPFQLGNYNCFYVMH

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			REVESLEKNMAILDPPDADHLYSAKVMLMASPSPMEDLYHKSCAL AEDPQBLRDGFGHPARLVKFLVGMKGKDEAMAIGGHWSPLDGP DPEKDPVLIKT\AIRCKKALTG
7012	1	2661	RRAGSVKRGEARLFGPTERQSERPLRPSAARRPEMLSGKKAAAA AAAAAAATGTEAGPGTAGGSENGSEVAAQAGLSGPAEVGPGA VGERTPRKKEPPRASPPGGLAEPGSGAGPQAGPTVVGSAATPME TGIAETPEG\RTSRRKRAKVEYREMDSELANLSEDEYYSEER NAKAEKEKKLPPPPQAPPEEENESEPEEPSGVEGAFAQSRPLPH DRMTSQEAACFPDIISGPQQTQKVFLFIRNRTLQWLNDNPKIQL TFEATLQQLEAPYNSDTVLVHRVHSLYERHGLINFGIYKRIKPL PTKKTGKVIIIGSGVSGLAARQLQSFQMDVTLLEARDRVGGRV ATFRKGNVYADLGAMVVTGLGNNPMVVSQVNMELAKIKQKCP LYEANGQAVPKEKDEMVEQEFNRLLLEATSYLSHQLDNFVNLNNKP VSLGQALEVVIQLQEKHVKDEQIEHWKKIVKTQBELKELLNKMY NLKEKIKELHQYKEASEVKPPRDI TAEFLVKS KHRDLTALCKE YDELAETQGKLEEKLELEANPPSDVYLSSRDRLDWHFANLE FANATPLSTLSLKHWDQDDDFEFTGSHLTVRNGYSCVPVALAEG LDIKLNTAVRQVRYTASGCEVIAVNTRSTSTQTFIYKCDAVLCTL PLGVLLKQPPAVQFVPLPEWKTS AVQRMGFGNLNKVVLCFDRV FWDPSVNLFGHVGSTTASRGELFLFWNLKAPILLALVAGEAAG IMENISDDVIVGRCLAAILKGIFGSSAVPQPKETVVSRRWRADPWA RGSYSYVAAGSSGNDYDLMAQF ITPGPSIPGAPQPIPRLFFAGE HTIRNYPATVHGALLSGLREAGRIADQFLGAMYTLPRQATPGVP AQQSPSM
7013	1	2661	RRAGSVKRGEARLFGPTERQSERPLRPSAARRPEMLSGKKAAAA AAAAAAATGTEAGPGTAGGSENGSEVAAQAGLSGPAEVGPGA VGERTPRKKEPPRASPPGGLAEPGSGAGPQAGPTVVGSAATPME TGIAETPEG\RTSRRKRAKVEYREMDSELANLSEDEYYSEER NAKAEKEKKLPPPPQAPPEEENESEPEEPSGVEGAFAQSRPLPH DRMTSQEAACFPDIISGPQQTQKVFLFIRNRTLQWLNDNPKIQL TFEATLQQLEAPYNSDTVLVHRVHSLYERHGLINFGIYKRIKPL PTKKTGKVIIIGSGVSGLAARQLQSFQMDVTLLEARDRVGGRV ATFRKGNVYADLGAMVVTGLGNNPMVVSQVNMELAKIKQKCP LYEANGQAVPKEKDEMVEQEFNRLLLEATSYLSHQLDNFVNLNNKP VSLGQALEVVIQLQEKHVKDEQIEHWKKIVKTQBELKELLNKMY NLKEKIKELHQYKEASEVKPPRDI TAEFLVKS KHRDLTALCKE YDELAETQGKLEEKLELEANPPSDVYLSSRDRLDWHFANLE FANATPLSTLSLKHWDQDDDFEFTGSHLTVRNGYSCVPVALAEG LDIKLNTAVRQVRYTASGCEVIAVNTRSTSTQTFIYKCDAVLCTL PLGVLLKQPPAVQFVPLPEWKTS AVQRMGFGNLNKVVLCFDRV FWDPSVNLFGHVGSTTASRGELFLFWNLKAPILLALVAGEAAG IMENISDDVIVGRCLAAILKGIFGSSAVPQPKETVVSRRWRADPWA RGSYSYVAAGSSGNDYDLMAQF ITPGPSIPGAPQPIPRLFFAGE HTIRNYPATVHGALLSGLREAGRIADQFLGAMYTLPRQATPGVP AQQSPSM
7014	3	3950	DFEVDGDKIRILATLEDGWLEGS LKGRGTGIFPYRFVKLCPDTRVE ETMALPQEGSLARIPETSLDCLNTLGVEEQRHETSDEHAEEDPD CIISEAPTSPLGHLTSEYDTRNSYQDEDTAGGPPRSPGVWEWEM PLATDSPTSDPTEVNGISSQPQVFFHPNLQKSQYYSVVGSGHP HSEQVPDLLPLEARTRDYASLPPKRMYSQKTLQKPVLPYLRGS SVSASRVVKPRQSSPQLHNLASYTKKHTSSVYSISERLEMKFG PQAQGLVMEATHSQGDGSTDLDSKLITQQLIEFEKSLAGPGTEP DKILRHFSIMDFNSEKDIVRGSSKLITEQELPERRKALRPPPPR PCTPVSTSPHLLVDQNLKPAPPLVVRPSRPAPLPPSAQQRNAV SPKLLSRHRPTCETLEKEGPGHMGRLDQTSPLPLVLRVRIEME RDLDMYRAQEELNLMLEEKQDESSRAETLEDLKFESNIESLN



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			MELQQLREMTLLSSQSSSLVAPSGSVSAENPEQRMLEKRAKRVIE ELLQTERDYIRDLEMCIERIMVPMQQAQVFNIDFEGFLGFMQMV IKVSKQLLAALBISDAVGPFVFLGHRDELEGTYKIYQCNHDEAIA LLEIYEKDEKIQKHLQDSLADLKSLYNEWGCTNYINLGSFLIKP VQRVMRYPLLLMELLNSTPESHDPKVLPTNAVLAVKEINVINE YKRRKDLVLKYRKGDEDSLMEKISKLNHSHI IKKSNRVSSHLKH LTGFAPQIKDEVFEETKFNFRMQRERLIKSTIRDLSLYLQHIRES ACVKVVAAVSMWDVCMERCHRDLEQFERVHRYISDQLFTNFKER TERLVISPLNQLLSMFTGPHKLIVQKRFDKLLDFYNCTERAELK DKKTLEELQSARNNYEALNAQLLDEL PKFHQYAQGLFTNCVHGY AEAHCDFVHQALEQLKPLLSLLKVAGREGNLIAIFHEEHSRVLO QLQVFTFFPESLPATKKPFERKTIHQSAKPLGLPSYMLQSE ELRASLLARYPPEKLFQAERNFNAAQDLDVSLLEGDLVGVIKKK DPMGSONRWLIDNGVTGKFVYSSFLKPYNPRRSHSDASVSGSHSS TESEHGSSSRFPFRQNSGSTLTIFNP\ S\MAVSFTSGSCQKQPQ DASPPPKEDWQGTLSASLNPSNSESPPSRCPSPDSTSQPRSG SADVARDVKQPTATPRSYRNFHPEIVGYSVFGRNGOSQDLVKG CARTAQAPEDRSTPDGSEAEQVYFAVYTFKARNPNELSVSA NQKLKILEFKDVTGNTWELAEVNGKKGYPVSNYIRKTEYT
7015	1842	513	RQAWHE\VAAPSWRGARLVQSVLRVWQVGPVHVARERVIPFSSLL GFRRRCVSCVAGSAFSGPRLASASRNGQGSALDHFLGFSQPD SVTPCPVAVSMNRDEQDVLVHHDPMPENSRVLRVLLGAPNAG KSTLSNQLLGRKVPVSRKVHTTRCQALGVITEKETQVILLDT GIISPGKQKRHHLELSLLEDPWKSMEADLVVVLDVDSKWTNR QLSPQLRLCLTKYSQIPSVLVMNKVDCLKQKSVLLELTAALTEG VVNGKLLKMRQAFHSHGTHCPSPAVKDPNTQSVGNPQRIGWPH FKEIFMLSALSQEDVKTLKQYLLTQAQPGPWEYHSAVLTSTQTP EICANI IREKLLHLPQEVYPNVQKTA VWEEGPGGELVIGQKL LVPKESYVKKLLIGPKGHVISQIAQAGHDLMDIFLCDVDIRLSV KLLK
7016	167	2513	ILNAPKPPPPRDSVEAVA AKRDTGGGSWGTMGVSGQETDWRST AFRQKLVSQIEDAMRKAGVAHSSKSKDMESHVFLKAKTRDEYLS LVARLI IHFRDIHNKKSQASVSDPMNALQSLTGGPAAGAAGTGM PPRGPGQSLGGMGSLGAMGQPMSSGQPPPGTSGMAPHSMMAVVS TATPQTQLQLQVAAAAAATARSSSSSSSRRRYSSSSSSSNSKQ FQAQSQSAMQ\QFQA\VVQQQQQL\QQQQQQQIILIKLHHQNPQ QIQQQQQQLQRIALQLQLQQQQQQQQQQQQQALQAQPPITQQP PMQQPQPPPSQALPQQLQQMHTQHHPQPPQPPVAQNQPSQ LPPQSQTQPLVSAQALPGQMLYTQPPFLKFVRAPMVVQPPVQPP QVQQQQTAVQTAQAAQMVAPGVQVSQSSLEMLSSPSPGQVQTP QSMPPPPQPSPPQPGSSQPNNSVSSGPA?SPSSFLPSPPSPQPF \QSPVTARTPONTSPVSPGPLNTPVNPSSVMSPAGSSQAEQQY LDKQLKLSKYIEPLRRMINKIDKNEDRKKDLKSKMSLLDILTDP SKRCBLKTLQKCEIALEKLKNDMAVPTPPPPVPPTKQYLCQP LLDAVLANIRSPVFNHSLYRTFVPAMTAIHGPPITAPVVCIRKR RLEDDERQSI PSVLQGEVARLDPKFLVNLDPSHCSNNGTVHLIC KLDDKDLPSVPPLSVLPADYPAAQSFLWIDRQWQYDANPFLQSV HRCMTSRLQLPDKHVSVALNTWAQSVHQAACLSAA
7017	1	1785	INLGNTCYMNSVT*ALFMATDFRRQVLSLNLNGCNSLMKKLQHL FAFLAHTQREAYAPRIFFEASRPWFPTPSQQDCSEYLRFLDDR LHEEEKILKVQASHKPSBILECSETSLQEVASKAAVLTETPTRTS DGEKTLIEKMFQGLRTHIRCLNCRSTSQKAEFTDLSLAFWPS YSLEYMSCPDCSQSPSIQDGLMQASVGPSEEPVVYNPTTAAF ICDSLNEKTI GSPNEFYCESENTSVNPNESNKLKVNKDVPQKPG GETTPSVTDLLNYFLAPEILTGDNQYCCENCASLQNAEKTMTQIT EEPEYLLITLLRFSYDQKYHVRRKILDNVSLPLVLELPVKRITS

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			FSLSSESWSVDVDFDTLSENLAKKLKPSGTDEASCTKLVPVLLS SVVVHSGISSESCHYYSYARNITSTDDSSYQMYHQSEALALASSQ SHLLGRDSPSAVFEQDLNEMSKKEWFLFNDSRVTFSTFQSVQK ITSRFPKDTAYVLLYKKQHSNGLSGNNPTSGLWINGDDPPLQKE LMDAITKDNKLYLQEQELNARARALQAASASCSFRPNFGDDNDP PGSCGPTGGGGGGGFNTVGRLVF
7018	484	1066	SLVFRGNTWSGEGHHCSALFNLAAYHQLFVGTERIRAPETIFQ PSLIGEEQAGIAETLQYILDRYPKDVQEMLVQNVFLTGGNTMYP GMKARMEKELLEMRPFRSSSQVQLASNPVLDAYGARDWALNHL DDNEVWITRKEYEEKGGEYLKEHCASNIYVPIRLPKQASRSSDA QASSKGSAAAGGCGAGEQA
7019	1048	335	APGGFLVTMVFPAPSPPPWMLGCCSHEVTAGPPTLCKDMSALVAA RMRHILAPGSDWRDLNIEVRLSDGTMARKLRYTHDRKNGRS SSGALRGVCSCVEAGKACDPAARQFNTLIPNCLPHTGNRHWHWA GLYGRLEWDGFFSTTTVNPEPMGKQGRVLHPEQHRVVSVRBCAR SQGFPTDYLFGNILDKHKRQGVNAVPPPLAKAIGLBKLCMLAK ARESASAKIKEEEAAKD
7020	1	2154	FADSKRKSVLDDKIKNLQVALTSKQQLSLETAMSFVARNTFKRVR NGFLMRKVAVFFSNTPTRASQQLREAVLKLSDAGITPLFLTRQE DRQLINALQINNTAVGHALVLPAGRDLTDFLENVLTCHVCLDIC NIDPSCGFGSWRPSFRDRRAAGSDVDIDMAFILDSEATTLFQF NEMKKYIAYLVRQLDMSDPKASQHFARVAVVQHAPSESVDNAS MEPVKVEFSLTDYGSKEKLVDFLSRGMTQLQGTALGSALEYTI ENVFESAPNPRDLKI VVLMLTGEVPEQOLEEAQRVILQAKCKGY FFVVLGIGRKVNIKEVYTFASEPNDFVFKLVDKSTELNEEPLMR FGRLLPSFVSSSENAFYLSPIRQKQDWFGQDQPTKNLVKFGHKQ VNVPNVNTSSPSTSNPVTTTKPVTTTKPVTTTKPVTTTKPVTI INQPSVKPAAAKPAPAKPVAAPKPAATKATVRPPVAVKPATAAK PVAAPKPAVRPFAAAAKPVATKPEVPRPOAAKPAATKPAATKPK MVKMSREVQVFEITENSALKHWERPEPPGPYFYDLIVTSAHDQS LVLLKQNLTVTDVIGGLLAGQTYHVAVVCYLSQRATYHGSFS TKKSQPPPPQPARSASSSTINLMVSTEPLALTETDICKLPKDEG TCRDFILKWYDPNTKSCAREFWYGGCGGNENKFGSQKECEKVCA PVLAKPGVISVMGT
7021	2	338	VNAVSEFPNGYAFATGSDDATCRFLDLRADQELLYSHDNIICG ITSVAFSKSGRLLLAGYDDFNCNVWDTLKGDRAGVLGHNDNRVS CLGVTDDGMAVATGSWDSFLRIWN
7022	2	856	VYIGSFWSHPLIPDNRLFEAEQDLFRDIQSLPRNAALRKLN DLIKRARLAKVHAYIISLLKEMPSVFGKDNKKKELVNNALEY GRIEREHQISPGDFPNLKRMDQLQAQDFSKFQPLKSKLLEVVD DMLAHDIAQLMVLVRQESQRP IQMVKGGAFFGLHGFPGHGYG EGAGEGIDDAEWVVARDKPMYDEIFYTLSPVDGKITGANAKKEM VRSKLPNSVLGKIWKLADIDKDGMLDDDEFALANHLIKVKLEGH ELPNELPAHLLPPSKRKVAE
7023	2	748	AMVFGGVVPVVPQYRDIRRTQADGFSTYVCLVLLVANILRLIF WFGRRFESPLLWQSAIMILTMLLMLKCTEVRVANELNARRRSF TAADSKDEEVKVAAPRRSFLDFDPHFQWSSFSYVQCCLAFTG VAGYITYLSIDSALFVETLGFALVLEAMLGVPQLYRNHRHQST EGMSIKMVLNMTSGDAFKTAYFLLKGAPLQFSVCGLLQLVLDLA ILGQAYAFARHPQKPAPHAVHTGTAL
7024	1207	190	RTGVTGGVVAQVWMFGGGVLLSSGEGQLQMPVKPERGLGESDGLV SSRRGSPGTVLGLPFWLLTPVLVSRISRMLLLTRSPATAHRLS QLKPPVLPPTLGGQALHLRSWLLSRQGAETGGQGPQGPGLRT RLLIITGLFGAGLGGAWLALRAEKERLQQQRTEALRQAAGVGGD FHLIDHRGRARCKADFRGQVLMYFGFTHCFDIPCDELEKLVQV VRQLEAEPGLPPVQPVFITVDPERDDVEAMARYVQDFHPRLLGL

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			LMPSSCPWRTGALGSPAGSRALGRCTSSVCPGSRWLTRTSSP GCATRTWRTMRMEPRPLRSRMGESAPGIPAEPLSPAAPSGPSAPS AAAPSAPTTPAAAGPNTL*SRRTAEWCWPPSCSCCWGC*SWSA WDWRRPPLQVSPAPSSSCRASCWCLESIT*SSSTARSATGAS SSSTCPTSRSDRGAATP\SPMGAPLLPCSVPLISREELQDPR NPSP*GVCSGSSGHAGLALGKPPVACSVF
7034	92	1942	EDTSSMPFRLLIPLGLLCALLPQHGGAPGPDGSAPDPAHYRERV KAMFYHAYDSYLENAFFDELRLPLTCDGHDTWGSFSLTLIDALD TLL\TLFYFQILGNVSEFQRVVEVLQDSVDFDIDVNASVFETNI RVVGGLLSAHLLSKKAGVEVEAGWPCSGPLLRMAEEAARKLLPA FQTPTGMPYGTVNLLHGVNPGETPVTCTAGIGTFIVEFATLSSL TGDPVFEDVARVALMRLWESRSDIGLVGNHIDVLTGKWWAQDAG IGAGVDSYFEYLVKGAILLQDKKLMAMFLEYNKAIRNYTRFDDW YLWVQMYKGTVMSPVFQSLAYWPGLOSLIGDIDNAMRTPLNYY TVWKQFGGLPEFYNIPOGYTVEKREGYPLRPELIESAMLYRAT GDPTLLELGRDAVESIEKISKVECGFATIKDLRDHKLDRNMFESF FLAETVKYLYLLFDPTNFIHNGSTFDVITPYGECILGAGGYI FNTEAHPIDPAALHCCQRLKEEQWEVEDLMREFYSLKRSRSKFO KNTVSSGPWEPPARPGLTFSPENHDQAREKPAKQKVPLLSGPS QPFTSKLALLGQVFLDSS*PLDNFFIFIFLRLNYNKLLLAIIKK K
7035	92	1942	EDTSSMPFRLLIPLGLLCALLPQHGGAPGPDGSAPDPAHYRERV KAMFYHAYDSYLENAFFDELRLPLTCDGHDTWGSFSLTLIDALD TLL\TLFYFQILGNVSEFQRVVEVLQDSVDFDIDVNASVFETNI RVVGGLLSAHLLSKKAGVEVEAGWPCSGPLLRMAEEAARKLLPA FQTPTGMPYGTVNLLHGVNPGETPVTCTAGIGTFIVEFATLSSL TGDPVFEDVARVALMRLWESRSDIGLVGNHIDVLTGKWWAQDAG IGAGVDSYFEYLVKGAILLQDKKLMAMFLEYNKAIRNYTRFDDW YLWVQMYKGTVMSPVFQSLAYWPGLOSLIGDIDNAMRTPLNYY TVWKQFGGLPEFYNIPOGYTVEKREGYPLRPELIESAMLYRAT GDPTLLELGRDAVESIEKISKVECGFATIKDLRDHKLDRNMFESF FLAETVKYLYLLFDPTNFIHNGSTFDVITPYGECILGAGGYI FNTEAHPIDPAALHCCQRLKEEQWEVEDLMREFYSLKRSRSKFO KNTVSSGPWEPPARPGLTFSPENHDQAREKPAKQKVPLLSGPS QPFTSKLALLGQVFLDSS*PLDNFFIFIFLRLNYNKLLLAIIKK K
7036	442	761	CLAPLFSCFQIINLHLPASGRLRWAWLRGPGRN*LPGEGPSIPT RNW*ERKAGCSQPC/PAQQHHGRPPGVSPPLPRDPHPTTLRPLPP PPPPPPPPRRPRNRPG
7037	442	761	CLAPLFSCFQIINLHLPASGRLRWAWLRGPGRN*LPGEGPSIPT RNW*ERKAGCSQPC/PAQQHHGRPPGVSPPLPRDPHPTTLRPLPP PPPPPPPPRRPRNRPG
7038	155	891	GAGAASDMSSGLRAADFPRWKRHISEQLRDRRLQRQAFEETIL QYNKLEKSDLHSVLAQKLQAEKHDPVNRHEISPGHDGTWNDNQ LQEMAQLRIKHQEELTELHKKRGELAQRVIDLNNQMQRKREM QMNEAKIAECLQTISDLETECLDLRTKLCDLERANQTLKDEYDA LQITFTALEGKLRKTTEENQELVTRWMAEKAQEANRLNARE*KR LQEAASPAERACRSSKGTSTSRG
7039	155	891	GAGAASDMSSGLRAADFPRWKRHISEQLRDRRLQRQAFEETIL QYNKLEKSDLHSVLAQKLQAEKHDPVNRHEISPGHDGTWNDNQ LQEMAQLRIKHQEELTELHKKRGELAQRVIDLNNQMQRKREM QMNEAKIAECLQTISDLETECLDLRTKLCDLERANQTLKDEYDA LQITFTALEGKLRKTTEENQELVTRWMAEKAQEANRLNARE*KR LQEAASPAERACRSSKGTSTSRG
7040	34	789	KITPPRRPHRCSSGHGSDNSSVLSGELFPAMGKTALFYHSGSS GYESVMRDSEATGSASSAQDSTSENSSVGGRCRSLKTPKKRSN

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			PGSQRRRLIPALSLDTSSPVRKPPNSTGVRWVDGFLRSSPRGLG EPFEIKVYEIDDERLQRRRGASKEAMCFNAKLKILEHRQORI AEVRKAYEWLMKELEATKQYLMLEDPNKLWSEFDLEQVWELDSLE YLEALECVTERLESRVNFCKAHLMITCFDIT
7041	1	567	SGRVAMGRRRAPAGGSLGRALMRHQTRSRSHRPTDSWLHTSEL NDGYDWGRNLQSVTEQSSLDLFLATAELAGTEFVAEKLNIKFV PAEARTGLLSFEESQRIKKLHEENKQFLCIPRRFNWNQNTTPEE LKQAEKDNFLEWRRL\VRLEEEQKLILTPERNLDFWRQLWRV IERSDIVVQIVDA
7042	7	345	PIHMAAALRADI\ISPLFPHTIQCYLLLSASHG\ATSLHTKGAL PLETVTMYTVIPKSKYVLVKPDTQYPYSENIDFKRLAENSASN DDLMAEVAISDYGDKLTLLELREKY
7043	2	2170	ARGMAARDSSEEDLVSYGTGLEPLEBGERPKKFIPLQDQTVRD EKGRYKRFHGAFFSGGSAGYFNTVGSKEGWPSTFVSSRQNRAD KSVLGPEDFMDDEDLSEFGIAPKAIVTDDFASKTKDRIREKAR QLAAATAPIPGATLLDLITPAKLSVGFELLRKMGWKEGQGVGP RVKRRPRRQKPDGPVKIYGCALPPGSSEGESEDDYLPDNVTF APKDVTVPDFTPKDNVHGLAYKGLDPHQALFGTSGEHFNLFSGG SERAGDLGEIGLNKGRKLGISGQAFVGALBEEDDIYATETLS KYDTVLKDEEPGDGLYGWTAAPRQYKNQKSEKDLRYVGKILDF SLASKPLSSKKIYPPPELPRDYRPVHYFRPMVAATSENSHLLQV LSESAGKATPDPGTHSKHQLNASKRAELLGETPIQGSATSVLEF LSQKDKERIKENKQATDLKAAQLKARSLAQAQSSRAQSPAAA AGHCSSWMAALGGGTATLKASNFKPKFAKDPEKQKRYDEFVLMKQ GQKDALERCLDPSMTWGRGRERDEFARAALLYASSHSTLSSRF THAKEEDSDSQVEVPRDQENDVGDQSAVKMKMFGLTRDTFEW HPDKLLFQ/RLVGLPRVKRDYSVFNFLTLPETASLPTTQASSE KVSQHRGPDKSRKPSRWDTSKHEKKEDSISEFLRLARSKAEPPK QSSPLVNKEEHAPELSAN
7044	276	734	EVYLTDEFAKGRKVADLYELVQYAGNIIPRIYLLITVGVVYVKS FPQSRKDILKDLVEMCRGVQHPLRGLFLRNYLLQCTRNILPDEG EPTDEETTGDISDSMDVLLNFAEMNKLWVRMQHGHRSRDREKR ERERQELRLILVGTNLVRLSQV
7045	3	513	LGFKMEALSRAQEMSIAALKQHDPIYITSIADLTGQVALYTFCP KANQWEKTDIEGTLFVYRRSASPHYGFTIVNRLNMHNLVEPVNK DLEFQLHEPFLLYRNASLSIYSIWFDKNDCHRIAKLMADVVEE ETRRSQQA/RSGQTESQPGQWLQRPQAHRRHFGDAEQSQG
7046	3	513	LGFKMEALSRAQEMSIAALKQHDPIYITSIADLTGQVALYTFCP KANQWEKTDIEGTLFVYRRSASPHYGFTIVNRLNMHNLVEPVNK DLEFQLHEPFLLYRNASLSIYSIWFDKNDCHRIAKLMADVVEE ETRRSQQA/RSGQTESQPGQWLQRPQAHRRHFGDAEQSQG
7047	103	486	QMKIEKCCWSEGLTSIKGNCHNFYTAISKDVITYKELKNLLNSKN IMLIDVREIWEILLEYQKIPESINVPLDEVGEALQMNPRDFEKEY NEVVKPSKSDS/IVFSYLAGVRSKKALDTAISLGFHSYYER
7048	92	627	FFCLTLSSWDYRHHATRRVIVSSVFTMEDSGKTFSSBEEBANY WKDLAMTYKQRAENTQEELREFQEGSREYEALETQLQOIETRN RDLLSENRLRMELETIKEKFEVQHSEGYRQISALEDDLAQTKA IKDQLQKYIRELEQANDDLERAKRATDHGLSKTFE\QRLN\QAI EKKW
7049	393	938	KRTGSASYGGFPFGLGGPATXASVAGRCSSVGKIPARRCYEDEL VPVFEAVGRIYELRLMMDFDGKNRGYAFVMYCHKHEAKRAVREL NNYEIRPGRLLGVCCSVNCRFLFIGGIPKMKKREEILEEIAKVT EGVLDVIVYASADKMKNRGLRLRGVREPPRGCHWLGRKLIANK ASSLWG
7050	393	938	KRTGSASYGGFPFGLGGPATXASVAGRCSSVGKIPARRCYEDEL

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			VPVFEAVGRIYELRLMMDFDGKNRGYAFVMYCHKHEAKRAVREL NNYEIRPGRLLGVCCSVNCRFLFIGGIPKMKKREIEIAKVT EGVLDVIVYASAADKMKNRGLRLRGVREPPRGCHWLGRKLIAXW ASSLWG
7051	119	816	KKMNLAETCDNAKKGREYALLGNYDSSMVMYQGVMMQIQRHCS VRDPAIKGKQVVRQELLEEEYEQVKSIVGTLESFKIDKPPDFPV SQQDEPFRDPAVWPPVPAEHRAPPQIRR/RQSRSKTSEERNGR SRSPGTCRPST\FISKSEKPTSRDKDYRARGRDDKGRKNMQDG ASDGEMPKFDGAGYDKDLVEALERDIVSRNPSIHWDD\ADLEEA KKLLREAGVLPMM
7052	467	715	SCPGRGKMSKLLNPEEMTSRDYFYFDSYAHFGIHEEMLKDEVRTL TYRNSMYHNKHVFKDKVVLVDVSGTGILSMFAARQGP
7053	467	715	SCPGRGKMSKLLNPEEMTSRDYFYFDSYAHFGIHEEMLKDEVRTL TYRNSMYHNKHVFKDKVVLVDVSGTGILSMFAARQGP
7054	1	1036	GTSQRSRETDARRRSAGAEPTARLPWPAALEEWSPSCPCEPLGFG RRCRNDAEMEYDEKLARFRQAHLPFNKQSGPRQHEGQGPGEVFD VTPEALPELPPEGEPEFRCPERVMDLGLSEDFHSRVPVGLFIASD VQQLRQAIEECKQVILELPEQSEKQKDAVRLIHLRLKLQELKD PNEDEPNIRVLEHRFYKEKSKSVKQTCDCNCTIIWGLIQTWYT CTGCYYRCHSKCLNLISKPCVSSKVSQAEYELNICPETGLDSQ DYRCAECRAPI/CS/DGVVPSEARQCDYTGQYYCSHCWMDLAV IPARVHNWDFEPRKVSRCMSRYLALMVSFVLRRLREIN
7055	2	527	DSRRVSWRSWLANE/WGKHLCLFIWLSMNVLLFWKTFLLYNQGP EYHYLHQLMG/ALCLSRASAVLNLCSLILLPMCRITLLAYLRG SQKVPSSRRTRRLDKSRTFHTICGATICIFSGVHVAHLVNALN FSVNYSEDFVELNAARYRDEDPKLLFTTVFGLTGVCMEVVLFL M
7056	2	527	DSRRVSWRSWLANE/WGKHLCLFIWLSMNVLLFWKTFLLYNQGP EYHYLHQLMG/ALCLSRASAVLNLCSLILLPMCRITLLAYLRG SQKVPSSRRTRRLDKSRTFHTICGATICIFSGVHVAHLVNALN FSVNYSEDFVELNAARYRDEDPKLLFTTVFGLTGVCMEVVLFL M
7057	1368	431	GIYLIIVNEKIPRPTCIGDRQENDKENLNLENHRDQELHASCQA SGEVPSQASLRGFFTEDEPGCFGEENLPEALQNIQDEGTGEQL SPQERISEKQLGQHLNPHSGEMSTMWLEEKRETSQKQGPAPM AQKLEPTCRECGKTFYRNSQLIFHQRTHGTETYFQCTICKAFLR SSDVFVKHQRTHTGKPKCKDYCGKGFSDFGSLRHHEKIHTGEKP YKCPICEKSFQSRNFRHQRVHTGEKPKYKSHCGKSFWSSSL DKHQRSHLGKKPFQ*PVTKLSFPISISQPSHKNTQLHQEELCLR GYPC
7058	1	469	FSGFGAVPDALGCRMSDLRITEAFLYMDYLCFRAT,CKGPPPAR PEYDLVCIGLTGSGKTSLSKLCSESPDNVSTTGFSIKAVPFQ NAILNVKELGGADNIRKYWSRYQGSQGVIFVLDSSASSEDLEA ARN*SQQLLQHPQLCTLEFLILA
7059	1	1178	WPAPFRQPAAMADALLGTGPRRARGCLGAAGPTSSGRAARTPA APWARFSAWLECVVVTDFLELQALELVYPNDFRLTDKEKSSI CYLSFPDSSHGCLGDTQFSFRMRQCGGQRSPWHADDRHYNRAP VALQREPAHYFGYVYFRQVKDSSVVRGYFQKSLVLVSRLLPFVRL FQALLSLIAPEYFDKLAPCLEAVCSEIDQWPAPAPGQTLNLPVM GVVVQVRIPSRVDKSESSPPKQPDQENLLPAPVVLASVHELDLF RCFRPVLTHMQTLWELMLLGEPLLVLAESPVSSEMLALTSC QLRFRCCDFRPFYFTIHDSEFKFTTRTQAPPNVVLGVNPFPIK TLQHWPHILRVGEPKMSGDLPKQVKLKKPFKV*RPWDTKP
7060	90	1670	SVNLPPSLWPNEEAMDSTKSEPLKGSPEAEDGNIYKKLNVNSQ YRFEHLVTQMWRQLQEGRGEAVYQIGVEDNGLLVGLAEEMRAS

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			LKTLHRMAEKVGADITVLREREVDYDSMPRKITEVLVRKVPDN QQFLDLRVAVLGNVDSGKSTLLGVLTQGELENGRGRARLNLFRH LHEIQSGRTSSISFEILGFNSKGEVHGINGTQWQQLTRMGW*** RT*DGGRVWRLFEIV*MNALRGL*TSSAPLRKSMGNQLN*IKNG VKIKRQGHDPGNGLPGNSEGVRAGRHR*GPWALQVNVNYSR TAEIEICSSSKMITFIDLGHKKYLHTTIFGLTSYCPDCALLLV SANTGIAGTTREHLGLALALKVPFFIVVSKIDLCAKTTVERTVR QLERVLPKPGCHKVPMVLTSEDDAVTAAQQAQSPNVTPIFTLS SVSGESLDLLKVFLNLLPPLTNSKEQEELMQQLTEFQVDEIYTV PEVGTUVGGTSLR*IDLLATLPTQPSFIYKTSWPKGGDPCI
7061	364	710	ARMPSELGPPCLPVMDETTLEPETARLRFRGFCYQEVAGPRE ALARLRELCCQWLQPEAHSKEQMLEMLVLEQFLGTLPPEIQAWV RGQRPGSPPEAAALVEGLQHD*ARMESPLGPPCLPVMDETTLE EEPETARLRFRGFCYQEVAGPREALARLRELCCQWLQPEAHSKE QMLEMLVLEQFLGTLPPEIQAWVRGQRPGSPPEAAALVEGLQHD PGQLLG
7062	71	744	AKAGTNLERLHLWLSYFFCIPKHKLKSSQKDKVRQFMACTQAGER TAIYCLTQNEWRLDEATDSFFQNPDSLHRESMRNAVDDKKLERL YGRYKDPQDENKIGVDGIQQFCDDLSDPASISVLVIAWKFRAA TQCEFSRKEFLDGMTELGCDMSMEKLLKALLPRLEQELKDTAKFKD FYQFTTFAKNPGQKGLDL*MAGAYWKLVLSSGRFKFLYLWNTFL MEHH
7063	2	562	LRTVPDLPGRRFRAMRTGQRR*PELPDMNSLEQAEDLKAFERR LTEYIHCLQPATGRWRMLLIVSVCTATGAWNWLIDPETQKVSF FTSLWNHPPFTTISCITLIGLFFAGIHKRVVAPSIIAARCTVLA EYNMSCDDTGKLLKPRPHVQ*QSSLIVMGLKIAFLRISDTAKS HKGFLRLRLDM
7064	300	884	RDTGSDPSSTRRLCSTCCTGH*PAEPIASPHPSRGTCPPASSAS SRTGWCWTCPPESGHAQARRSRASASRWGARGAVRSAVAARGC SSRAGRWLETPGRRRGPPACAAAAGRLRGAP*AAPPTASVPAR CRCPAARTGAPAAATWLRRLSGLRAPALGRRRSPGPSPKSAAP PLLTPLGAGRAGGSRANS
7065	1	555	ATTTSHARRSGRGAAAEAAAAGGRQKGPDRKAWEGRRRTTPGG RSQSEPKAPPPQKRSEAAAFASMAHSPVAVQVPGMQNNIADPEEL FTKLERIGKGSFGEVFKGIDNRTQQVVAIKI IDLEEADEIEDI QQEITVLSQCDSSSYVTKYYSYLGSKLWII MEYLGGSALDLL RAGPFDEFQ
7066	356	676	PGPQRGPWRAREGGHPLDPADHPRAPASLRSNVRAATMMQICDT YNQKHSLEFNAMNRFICAVNNMDQTMVVPSSLRDVPLADPLDND VGVEVGSGGCGLEERTPP
7067	152	973	KENITMATEIGSPPRFFHMPRFQHQAPROLFYKRPDFAQQQAMQ QLTFDGKMRKAVNRKTIYNPSVIKYLENRIWQRDQDRMRATQ PDAGYYNDLVPPIGMLNNPMNAVTTKFVRTSTNKVKCFVFWRW TPEGRLVTGASSGEFTLWNGLTNFETILQAHDSPVRAMTWSH NDMMMLTADHGGYVKYQSNMNNVQMFQAHKEAIREARFIHNIP FSVVPVIMVKLFSKCILGAEMHGLCQFLGNFLHPINTIFFFVFT HSPFCWAPF
7068	222	816	DTMKEYVLLFLALCSAKPFFSPSHIALKNMMLKDMEDTDDDDD DDDDDDDDDDNSLEPTREPRSHFFPDLFPMCFPGCQCYSRV VHCSDLGLTSVPTNIPFDTRMLDLQNNKIKEIKENDFKGLTSLY GLILNNKLTKIHPKAFITTKKLRLYLSHNQLSEIPLNLPKSL AELRIHENKVKIKQKDTFKKK
7069	1147	1765	FRDHRRYFYVNEQSGESQWEFPDGESEEEESQAQENRDETLAQ TLKDKTGTDSNSTESSETSTGSLCKESFSGQVSSSSLMPLTPFW TLLQSNVPVLQPPLEMPFPFPFPFPFPFPFPFPFPFPFPFPFPFP

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			EKTKKGRKDKAKKSKTKMPSLVKKWQSIQRELDEEDNSSSEED RVSTAQKRRIEENKQQQLVSGMAERNANFEA
7070	1	547	DGTMEDSEAVQRATALLIEQRLAQEEENEKLRGDARCKLPMDLIV LEDEKHHGAQSAALQKVGQERVRKTSLDLRREIIDVGGIQNLIELRKKRKQKKRDALAASHEPPPEPEEITGPVDEETFLKAAVEGK MKVIEKFLADGGSADTCQFRRTALHRASLEGHMEILEKLLDNG ATVDFQ
7071	2	921	ARGTLRALETAKKVGKVGANGQKAAGPSADSVTENKIGSPPKTP VSNVAATSAGPSNVGTENSVQKSSPFLTRVPAYPPHSENIQY FQDPRTQIPFEVPOYPQTGYPPPTVPAGVAPCVPRFVRNNV PESSLPASMPYADHYSTFSRDRMNSSPYQPPPPQPYGVPVPV PSGMYAPVYDSRRIRWPPMYQRDDIIRSNSLPPMDVMHSSVYQTS LRERYNSLDGYYSVACQPPSEPRTTVPLPREPCGHLKTSCEEQ IRRKPDQWAQYHTQKAPLVSSSTLPVATQSPPTPPSTLNRGEGS
7072	2	921	ARGTLRALETAKKVGKVGANGQKAAGPSADSVTENKIGSPPKTP VSNVAATSAGPSNVGTENSVQKSSPFLTRVPAYPPHSENIQY FQDPRTQIPFEVPOYPQTGYPPPTVPAGVAPCVPRFVRNNV PESSLPASMPYADHYSTFSRDRMNSSPYQPPPPQPYGVPVPV PSGMYAPVYDSRRIRWPPMYQRDDIIRSNSLPPMDVMHSSVYQTS LRERYNSLDGYYSVACQPPSEPRTTVPLPREPCGHLKTSCEEQ IRRKPDQWAQYHTQKAPLVSSSTLPVATQSPPTPPSTLNRGEGS
7073	50	504	LAHSGFVSDFPAPAAAPAHLTLSFGSGLSPQFRKPLGRAPAMP LVRYRKVILGYRCVGKTSLAHQFVEGEFSEGYDPTVENTYSKI VTLGKDEFHLHLVDTAGQDEYSILPYSFIIGVHGYYLVYSVTSLS HSFQVIESLYQKLHEGHGK
7074	263	1003	VCPVLCTRQEPGHSSLVTYFGKPTRRKEFLGHGICAAAGKMNIS VDLENTYAEVLVDVGRVTLGENSRKKMKDCKLRKKQNERVSRAM CALLNSGGGVIAEINEDYSYTKDIGLJOLENSFSNILLFVPE YLDFMQNGNYFLIFVKWSLNTSGLRITLSSNLYKRDITSARKV MNATAALEFLKDMKKTRGRLYLRPELLAKRPRVDIQEENNMKAL AGVFFDRTELDRKEKLTFTTESTHVEI
7075	598	1005	NYINFFFRKEYPPHVQKVEINPVRLSRLQGVVERIMKKTESESEQ VEPEIKRKVQKKRHCSTYQPTPLSPASKKCLTHLEDLQRCNRQ AITLNESTGPLLRTSIHQNSGGQKSQNTGLTTKKFYGNVKEKVP IDII
7076	279	1049	LQSESSNAAEGNEQRHEDEQRSKRGWSKGRKRKKPLRDSNAPK SPLTGYVRFMNERREQLRAKRPEVPFPEITRMLGNEWSKLPPEE KQRYLDEADRDKERYMKELEQYQKTEAYKVFSRKTQDRQKGSKSH RQDAARQATHDHEKETEVKERSVFDIPIFTEEFNLHNSKAREAEI RQLRKSNMETEERNAALQKHVESMRTAVEKLEVDVIGERSRNTV LQQHLETLRQVLTSSFASMPLEPXEGETPTVDTIDSYM
7077	3	1119	SSMGSNSEINGLALRKTDKYGFLLGGSQYSGSLKSSIPVDVARQR ELKWLDMFSNWDKWLRRFQKVKLRCKRGIPSSLRAKAWQYLSN SKELLEQNPRKFEELERAPGDPKWLVDVIEKDLHRQFPFHEMFAR GGHGQQDLRYILKAYTIYRPDEGYCQAQAPVAAVLLMHMPAEQ AFWCLVQICDKYLPGYYSAGLEAIQLDGEIFFALLRRASPLAHR HLRQRIDPVLMTWFMCIIPARTLPWASVLRVWDMFFCEGVKI IFRVALVLLRHTLGSVEKLRSCQGMETMEQLRNLPPQCMQEDF LVHEVTNLPVTFALIERENAAQLKKWRETRGELQYRPSRRHLGS RAIHEERRRQPPPLGPSSS
7078	483	767	FQGQRMAGEQKPSNNLEQFILLAKGTSGSALTALISQVLEAPG VYVFGELELANVQELAEGANAAYLQLLNLFAYGTYPDYIANKE SLPELY
7079	2	376	SVVEFKRPKEPSGSDGESDGPIDVGQEGQLSQMARPLSTPSSSQ MQARKKRRGIIEKRRDRINSLSLRLRLVPTAFKQGSXLEK



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			AEVLQMTVDHLEKMLHATGGTGTHALLFQASFIQQIF
7080	200	595	VQLPLEAPCLSLSCRDHSGGNRDLRRHRDCRVYGSPODGIPIY LTHPLCHQDVVSVGRLQIRALATPGHTQGHLYVLLDGEPIYKGPS CLFSGDLLFLSGCGEFPKRKEELGEEGETEVRATVPWRALKP
7081	213	506	AVTEEMILNSLSCLVHNKLLAPMVVRVGTPLMRLLALDYGADI VYCEELIDLKMIQCKRVVNEVLSTVDFVAPDDRVTTCEREQN RVVFQMGTS
7082	3	1137	APSRNTMLMAWCRGPVLLCLRQGLGTNSFLHGLGQEPFEGARSL CCRSSPRDLRDGEREHEAAQKAPGAESCPSLPLSISDIGTCSL SSLENLRLPTLREESSPRELEDSSGDQGRCGPTHQSGEDPSMLS QAQSATEVEERHVSPPSCSTSRERPFQAGELILAETGEGETKFKK LFRLLNFGLLNSNWGAVPFGKIVGKFPQGILRSSFGKQYMLRRP ALEDYVLMKRGTAITFPKDINMILSMMDINPGDITVLEAGSSG GMSLFLSKAVGSQGRVISFEVRKDHHDLAKKNYKHWRDSWKLSH VEEWPDNVDFIHKDISGATEDIKSLTFDAVALDMLNPHVTLVPV YPHLKHGGVCPVYVNNITQVIELLD
7083	115	541	RSNAVQLTRMEYAMKSLSLYPKSLSRHVSVRTSVVTQQLLSEP SPKAPRARPCRVSTADRSVRKGIMAYSLEDLLKVRDTLMLADK PFFLVLEEDGTTVETEEYFQALAGDITVFMVLQKGQKWQPPSEGG TRHPLSLSHK
7084	3	522	NSVSVSQSRSFLASVPGTGVQRSAAADMAASTAGKQRI PKVAK VKNKAPAEVQITAEQLLREAKERELELLPPPPQKITDEEELND YKLRKKKTFEDNIRKNRTVISNWKYQAWESLKEIQARSIYE RALDVDYRNITLWLKYAEMEMKNRQVNHARNIWDRAITTL
7085	243	1499	RQLARLRRRGRWSPFGGAPMAHITINQYLQQVYEADSRDGASC AELVSFKHPHVANPRLQMASPEEKCCQVLEPPYDEMFAAHLRCT YAVGNHDFIEAYKCCQTVIVQSFLRAFQAHKEENWALPVMYAVAL DLRVFANNADQQLVKKGKSXVGDMLEKAAELLMSCFRVCSADTR AGIEDSKKWMFLFLVNQLFKIYFKINKLHLCKPLTRAIDSSNLK DDYSTAQRVTYKYYVGRKAMFDSDFKQAEYLSFAFEHCHRSSQ KNKRMTLIYLLPVKMLLGHMPTVELLKKYHLMQFAEVTRAVSEG NLLLLHEALAKHEAFFIRCGIFLILEKLKIITYRNLFKKVYLLL KTHQLSLDAFLVALKFMQVEDVDIDEVQCILANLIYMGHVKGYI SHQHOKLVVSKQNPFPPLSTGC
7086	256	525	ILAARMGKQNSKLRPEVMQDLLESTDFTEHEIQEWYKGLRDCP SGHLSMEEFKKIYGNFFPYGDASKFAEHVFRFTFDANGDGTIDFR EF
7087	166	723	LSGSSAGKVAAPCVPPSNHELVPITTENAPKNVVDKGBGASRGG NTRKSLEDNGSTRVTPSVQPHLQPIRNMVSRTMEDSCELDLYV VTERIIAVSFPSTANEENFRSNLREVAQMLKSKHGGNYLLFNLS ERRPDITKLHAKVLEFGWPDLHTPALEKICSIKAMDITWLNHP HRCRVLHNKG
7088	104	759	GTSAAASPSSLEMAEITETGELYSSYVGLVYMFNLIVGTGALT MPKAFATAGVLVSLVLLVFLGFMSPMTTTFVIEAMAAANAQLHW KRMLNKEEEDDDSSASDSVLIIRDNYERAERPILSVQRRGS PNPPEITDRVEMGQMASMFFNKVGNLFYFCIIIVLYGDIAIYA AAVPFSLMQVTCSATGNDS CGVEADTKYNDTDRCWGP LRRVD
7089	33	1775	SVCWEDRYLKARMEESPLSRAPSRGGVNFNLNARTYIIPNTKVEE HYTLPPGTMPASDWIGIFKVEAACVRDYHTFVWSSVPBESTDG SPIHTSVQFQASYLPKPGAQLYQFQRYVNRQGVCGQSPPFQFRE PRPMDELVTLEADGGSDILLVVPKATVLQNQLDESQQRNDLM QLKQLQLEGQVTELRSRVQELERALARQEHTELMSEQYKGISRS HGEITEERDILSRQGDHVARILELEDDIQTISEKVLTKVELED RLRDVTKALTREQEKLLGQLKEVQADKEQSEAEQLQVAQENHHL NLDLKEAKSWQEEQSAQAQLKDKVAQMKDTLGQAQQRVAELEP

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			LKEQLRGAQELAASSQQKATLLGEELASAAAARDRTIAELHRSR LEVAEVNGKLAEGLHLKKEKQWSEKERAGLLQSVEAEKDKILK LSAEILRLLEKAVOEERTONQVFKTELAREKDSLVQLSESKRE TELRSALRVLQKEKEQLQEEKQELLEMYMRKLEARLEKVADEKWN EDATTEDEEAAGVGLSCPAALTDSEDESPEDMRLHPMAFVSVETQ ASLLGLLE
7090	33	1775	SVCWEDRYLKARMEESPLSRAPSRGGVNFNLVARTYIPNTKVEC HYTLPPGTMPASDWDIGIFKVEAACVRDYHTFVWSSVPESTTDG SPIHTSVQFOASYLPKPGAQLYQFRYVNRQGVCGQSPFPQFRE PRPMDELVTLEEADGGSDILVVPKATVQLQNLDESQQERNDLM QLKLQLEGQVTELRSRVQELERALARARQEHTELMEQYKGTSR HGEITEERDILSRQGDHVARILELEDDIQTISEKVLTKVELD RLRDTVKALTRQEKLLGQLKEVQADKEQSEAEQLVAQQENHHL NLDLKEAKSWQEEQSAQAQRLKDKVAQMKDTLGQAQQRVAELP LKEQLRGAQELAASSQQKATLLGEELASAAAARDRTIAELHRSR LEVAEVNGKLAEGLHLKKEKQWSEKERAGLLQSVEAEKDKILK LSAEILRLLEKAVOEERTONQVFKTELAREKDSLVQLSESKRE TELRSALRVLQKEKEQLQEEKQELLEMYMRKLEARLEKVADEKWN EDATTEDEEAAGVGLSCPAALTDSEDESPEDMRLHPMAFVSVETQ ASLLGLLE
7091	186	1076	BGMLTREHRCGRSEEQELEPWFPSPKKARSGRWLRNGFKRKMEEP EPPADSGQSLVPVYIYSPYVSMCDLAKIPKRASMVHSLIEAY ALHKQMRIVPKVASMEEMATFHTDAYLQHLQKVSQEGDDHDP SIEYGLGYDCPATEGIFDYAAAIGGATTAAQCLIDGMCKVAIN WSGGWHHAKKDEASGFCYLNDVGLILRLRRKFERILYVLDLHL HGDGVEDAFSFTSKVMTVSLHKFSPGFFFGTGDVSDVGLGKGRY YSVNVPIQDGIQDEKYQICERYEPAPNPGL
7092	522	809	KQGINEDQEESSQKPRLGECEPISKROMKKLIKQKQWEEQRELR KQKRKEKRKKLERQCQMEPNSDGHDRKRVRRDVVHSTLRLLII DCSFDXLM
7093	454	655	NFGVSGVELAQASVMRMSFVIAACQLVLGLLMTSLTESSIONS BCPQLCVCEIRPWFTPQSTYREA
7094	2	508	FVRSMLHWGVGFASSRCPVVDLSWNQSISSFQWWAGSEBPFPSYF DIIAPFLQDYCGIMAGLSDPWWKTLTLTGALLAAAYLLHE LLVIRKQQEIDSKDAIILHQFARPNNGVPSLSPFCLKMETYLRM ADLPYQNYFGGKLSAQGKMPWIEYNHEKVSGETEFII
7095	1	411	IASSLPKMASLLQSDRVLYLVQGEKKVRAPLSQLYFCRCVSEL SLECVSHEVDSHYCPSCLENMPSAEAKLKKNRANCANCFDPCGCMH TLSTRATSISTQLPDDPAKTTMKAYYLACGFCRWTSRDVGMAD KSVGE
7096	224	2067	ETRS LAVQEKPSQAGRRRSSRISFAGALFLTRFLQELLNNFC SAMSPAPDAAPAPASISLFDLSADAPVFOGLSLVSHAPGEALAR APRTSCSGSGERESPERKLLQGPMDSSEKLFCSCTDQTFQNHQE QREHYKLDWHRFNLKQRLKDKPLLSALDFEKQSSSTGDLSSISGS EDSDSASEEDLQTLDRERATFEKLSRPPGFYPHRVLFQNAQQGF LYAYRCVLGPHQDPPEAEALLQNLQSKGPRDCVVLMAAAGHFA GAIFQGREVVTHKTFHRYTVRAKRGTAQGLRDARGGPHSAGAN LRRYNEATLYKDVRLLAGPSWAKALEEAGTILRAPRSGRSLE FGGKAPLQRGDPRLWDIPLATRRPTFQELQRLVHLKLTTLHVYE EDPREAVRLHSPQTHWKTVREERKKPTEEEIRKICRDEKEALGQ NEESPKQSGSGEGEDGFQVELELVLTGTDLCESEVLPRKRR RKRNKKEKSRDQEAHRTLLQQTQEEEPSTQSSQAVAAPLGLP LDEAKAPGQPELWNALLAACRAGDVGLKLQCLAPSPADPRVLSL LSAPLGS GGFTLLHAAAAAGRGSVVRLLEAGADPTVQCQDH
7097	256	1228	IRTKSAATWEAWPQCGREGSRITTEPCEANAGSRQELQTERISS FLAAQGDQAFHSGLETNNSNELPLRVGLKVAQGSPLMGQVSA

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			SNSFSRLHCRNANEDWMSALCPRLWDVPLHHLSPGSHDTMTYC LNKKSPISEESRLQLLNKALPCITRPVVLKNSVTQALDVTEQ LDAGVRYLDLRIAHMLEGSEKNLHFVHMVYTTALVEDTLTETSE WLERHPREVILACRNFEGLSEDLHEYLVACIKNIFGDMLCPRG EVPTRLQLWSRGQQVIVSYEDSSLRHHHLWPGVFPYWGGRVK TEALIRYLETMKSCGR
7098	82	956	SSFLKRCRKVLGCWGPSEQLFSTLEEFDRKEIDNYCVMRIQT EARSQFWAPNRRFPVNICRMTAVDGDGRGSSRETCHFHPSLEA LVLLQDWQPGGVGICTSFLGISWALLDYHRAALRTCLPSKPLLG LGSSVIYFLWNLLLPVRLAVALFSAFSPSYVALHFLGLWLVL LLWVWLQGTDFMPDPSSEWLYRVTATILYFSWFNVABGRTRGR AIIHFAFLSDSILLVATWVTHSSWLPSPGIPLQLWLPVGCFCFF LGLALRLVYVHNLHSCCCKPDQVD
7099	992	210	LFRAPGFLRLSLARQQYHQIWAFFPLPSGATATWPAASRSRLA ARSLPRSPARPGPNDALLGEHDFRGQGVRAQRFRFSEEPGPGAD GAVLEVHVPPQIGAGVSLPGILAAKCGAEVILSDSSELPHCLEVC RQSCQMNPLPHLQVGLTWGHISWDLALPPQDIILASDVFFEP EDFEDILATIIYFLMHKNPKVQLWSTYQVRSADWSLEALLYKNDM KCVHIPLESDADKEDIAESTLPGRHTVEMLVISFAKDSL
7100	205	671	ANGGFWEAAPGSEVSLPLWVPTASHSKTTALGIGSAPPPLHSLV FLFSFPQLGDPLEAFPVFKKYDRNLNVSECKRVSGLEPATV DWAFLDTKTNMQTMYEQSEWGWKDKREEMTDDRAWYLIAWEN SSVPVAFSHFRFDVERGDEVLYW
7101	2	503	WRGGPRRAKRLAGGAVGWLLVRGVHVSVRAGGGRPPRAADMKKD VRILLVGEPRVGKTSILMSLVSEEFPEEVPRAEITIPADVTP ERVPTTHIVDYSEAEQSDQLHQEISQANVICIVYAVNNKHSIDK VTSRWIPLINERTDKDSRLPLILGNKSDLVVEYSR
7102	2	503	WRGGPRRAKRLAGGAVGWLLVRGVHVSVRAGGGRPPRAADMKKD VRILLVGEPRVGKTSILMSLVSEEFPEEVPRAEITIPADVTP ERVPTTHIVDYSEAEQSDQLHQEISQANVICIVYAVNNKHSIDK VTSRWIPLINERTDKDSRLPLILGNKSDLVVEYSR
7103	119	438	GSQSSVAVNIRSGTDEESMDLMNGQASSVNIAATASEKSSSES LSDKGSSELKKSFDVAVFDVLKVTPEEYAGQITLMDVPVFKAIQ DELSSCGWNKKEYSSAP
7104	1670	795	RLWEHRSVSAGASGWLSSPGCLLHPSLPEEERVDILINNAGV MRCPHWTTEDGFEMQFGVNLGEAWAGAAPWVQAILPRRPPKVL GF**VKSDLFIILNPGHLLTNLLDKLKASAPSRILNLSSLA HVAGHIDFDLNLWQTRKYNTKAAYCQS\KLAIVLFTKELSRRLQ GSGVTVNALHPGVARTELGRHTGIHGSTFLQHHN\WAHLLAAMS KSPRSWPAPAQHNTLAVAEELA\VISGKYFDGLKQKAPAEABD EEVARRLWAEARLVGLEAPSVREQLPR
7105	765	143	GQMCRRPSPKSTSCLSMTCDLP/RGLQDPQCLALFRVAVDKHQ LLKAAMSGQGVDRHLFALYIVSRFLHLQSPFLTQVHSEQWQLST SQIPVQQMHLFDVHNYPDYVSSGGGFGPADDHGYGVSYIFMGDG MITFHISKKSSSTKTDHRLGQHIEDALLDVASLFQAGQHFKRR FRGCKENSRRHRCGFLSRQTGASKASMTSTDF
7106	14	1064	GLQAGHPHPRSASRIPEADTH\YSKLQRAFDSTIVNKDHRMFGT YFRVGGFFGSKFGDLDEQEFVYKEPAITKLPEISHRLEAFYGCQF GAEFVEVIKSTPVDKTKLDPNKAYIQTTFVEPYFDEYEMKDRV TYFEKNFNLRRFMYTTPFTLEGRPRGELHEQYRRNTVLTMMHAF PYIKTRISVIQKEFVLTPIEVAIEDMKKKTQLAVAINQEPED AKMLQMVLLQGSVGATVNGQPLEVAQVFLAEIPADPKLYRHHNKL RLCFKEFIMRCGEAVEKNKRLITADQREYQQLKKNYNKLKENL RPMIERKIPELYKPIFRVESQKRDSFHRSSFRKCTQLSQGS
7107	1145	591	*I*WLQTGKKK

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SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop Codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7108	1	942	VKVALLLTNLEQPRTESEWENSFTLKMFLQFVNLSSTFYIAF FLGRFTGHPGAYLRLINRWRLEECHEPSCGLIDLQCMQGIIMVLK QTWNNFMELGYPLIQNWTRRKVRQEHGPERKISFPQWEKDYNL QPMNAYGLFDEYLEMILQFGFTTIFVAAPPLAPLLALLNNIIEI RLDAYKFVTQWRRPLASRAKDIGIYWGILEGIGILSVITNAFVI AITSDFIPRLVYAYKYGPCACQGEAGQKCMVGYVNASLSVFRIS DFENRSEPESDGSEFSGTPLKYCRYRDYRDPHSLVPYGYTLQF WHVLAW
7109	964	102	WDQRKNSLVPGPAHGPAQEPEWEKESLGAAQEALSIQLQPK TQPPFKSEQVYLHFLSVVTEDEGPEPKDKGSLPQPPITEVESQV SEKLATDTSTFEATSEGTLELQQRNPKAERLRWSPAQEESEFROM VVIHKEIPTGKKDHECSECGKTFIYNHLVVHQRVHSGEKPKYC SDCGKTFKQSSNLGQHQRIHTGKPFECNECGKAFRWGAHLVQH QRIHSGEKPYECNECGKAFSQSSYLSQHRRIHSGEKPFICKECG KAYGWCSELIRHRRVHARKEPSH
7110	96	697	RLDNFSGFLVEVTKEERHIVKPLYDRYRLVKQMLTRASITPVLG SPSTKRRGQMLQPIIEGETAHFFEBIKEEEDGVNLSSELGDML KTAVQVQSSLNSESDVEENQEKALDLRLSSRAASMPELLEQ LWKARAEKKLRKTLREFEAFYQNGRNAQKEDRVPVLEEYRE YKKIKAKLRLLEVLISKQDSSKSI
7111	2	414	GSGLYRGPTPGGQCIWKPNMPPDHENRFGFTQFALELNELTAE LKRSIPSTDTRLRPDQRYLEEGNIQAABEQKRRIEQLQRDRKV MEENNIVHQARFFRQTDSGKEWVVTNNITYWRLRAEPGYGNMD GAVLW
7112	103	495	PRCFVADRGRLIGGLEDDVVTIMEGKTLNLTCTVFGNPDPEVW FKNDQDIQLSEHFSVKVEQAKYVSMITIKGVTSEDSGKYSINIKN KYGGKIDVTVSIVYKHGEKIPDMAPPQQAQKPLIPASASAAGQ
7113	1	824	KCLRQAWHEAPSSLAFTRWCSREERAEGGNLHRSITRDPKPPG LRPSQRPMDDKKKRSKPKCLAQPAQAGTLRRVPVPTSHSGSL ALGLPHLPSPKQRAKFKRVGKEKORPVLAGGGSGSAGTPLQHSF LIEVTDVYEMEGGLNLNLDHSGRLQAFGKECSFEQLEHVREM QEKLARLHFSLDVCGEEEDDEEEDGVTEGLPPEQKKTADRNLD DQLNLGSLGALVPGMRGEGTYSQSHSWALGEKVGCVHSGK SSCPLNLPRR
7114	3	1492	VWEVDEQIDHYKESQDKFLWQAFAFGKETLKDSESGQCECKICKRI IYLNITDFVSVKQRLPKYYSWERCSKHHLNFGQNRSYVRKKDDG CKAYWKVCLHYNLHKAQPAERFFDPNQRGKALHQAALRKSQRS QTGEKLYKCTECCGVFIQKANLVVHQRTHTGKPYECCECAKAF SQKSTLIAHQRTHTGKPYECSECGKTFIQKSTLIKHQRTHTGE KPFVCDKCPKAFKSSYHLIRHEKTHIRQAFYKGIKCTSSLIYQ RIHTSEKPKQCEHGKASDEKPSPTKHWRTHTKENIYECSCGKS FRGKSHLSVHQRIHTGKPYECSCGKTFSGKSHLSVHHRTHTG EKPYECRRCKAFGEKSTLIVHORMHTGKPYKNECGKAFSEK SPLIKHQRIHTGERPYECTDCKKAFSRKSTLIKHQRIHTGKPY KCECGKAFSVKSTLIVHHRTHTGKPYECRDCGKAFSGKSTLIK KHQRSHTGDKNL
7115	1	947	NAAHGYNWGLWCMIIPPDWLDGRDESAPIRTPAMIGCSFVVD REYFGDIGLLDPGMEVYGGENVKLGMRVWQCGGSMEVLPCSRVA HIERTRKPYNNIDIDYAKRNALRAAEVWMDDFKSHVYMAWNIIP SNPGVDFGVDVSERLALRQLKCRSFKWYLENVYPMRVYNNITLT YGEVRNSKASAYCLDQGAEDGDRAILYPCHGMSSQLVRYSDGL LQLGLPLGSTAFLPDSKCLVDDGTGRMPTLKKCEDVARPTQRLWD FTQSGPIVSRATGRCLEVEMSKDANFGLRLVQRCGQKXMMIRN WIKHARH
7116	866	95	RVRMRNNAEVIIEKLSMKSWAKFRPCPEPWKGYPNIDPETDPYVT PGSVNNLSINTVREVDHLDRNSGSSSSSLNTLTPSTSAWSSIR